



OCCUPATIONAL ANALYSIS OF THE OPTOMETRIST PROFESSION

STATE OF CALIFORNIA



DEPARTMENT OF CONSUMER AFFAIRS

OFFICE OF PROFESSIONAL EXAMINATION SERVICES

BOARD OF OPTOMETRY

OCCUPATIONAL ANALYSIS OF THE OPTOMETRIST PROFESSION



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In August 2018, on behalf of the Board, OPES sent an email invitation to a large sample of actively licensed optometrists with California addresses who had email addresses on file with the Board (a total of 4,927). The invitation explained the purpose of the OA and requested that they complete the OA questionnaire online.

Approximately 25% of the optometrist population (1,237 respondents) accessed the web-based questionnaire. The final sample size included in the data analysis was 563 respondents. This final response rate reflects two adjustments. First, data were excluded from respondents who indicated that they were not currently practicing as a licensed optometrist in California. Second, questionnaires containing incomplete and unresponsive data were removed from the sample. The demographic composition of the final respondent sample is representative of the optometrist population in California.

OPES test specialists then performed data analyses of the task and knowledge ratings obtained from the questionnaire respondents. The task frequency and importance ratings were combined to derive an overall criticality index for each task statement. The mean importance rating was used as the criticality index for each knowledge statement.

Once the data were analyzed, OPES conducted a workshop with a diverse sample of SMEs in October 2018. The SMEs evaluated the criticality indices and determined whether any task or knowledge statements should be eliminated. The SMEs also established the linkage between tasks and knowledge statements, organized the task and knowledge statements into content areas, defined those content areas, and determined the relative weights of each content area on the examination outline.

The examination outline is structured into six content areas weighted by criticality relative to the other content areas. This outline provides a description of the scope of practice for optometrists, and it also identifies the tasks and knowledge critical to safe and competent optometry practice in California at the time of licensure. Additionally, this examination outline provides a basis for evaluating the degree to which the content of any examination under consideration measures content critical to optometry practice in California. In February 2019, OPES facilitated an additional workshop to finalize the content areas and weights of the California Optometry Laws and Regulations Examination Outline. The examination outline is structured into five content areas.

OVERVIEW OF THE CALIFORNIA OPTOMETRIST EXAMINATION OUTLINE

Content Area	Content Area Description	Percent Weight
1. Patient Examinations	This area assesses the candidate's knowledge of the components of a comprehensive eye exam, including obtaining chief complaint, obtaining patient history, and performing diagnostic testing procedures.	34
2. Diagnoses and Treatment Plans	This area assesses the candidate's ability to make diagnoses and prepare treatment plans.	10
3. Spectacles and Protective Eyewear	This area assesses the candidate's knowledge of prescribing ophthalmic frames and lenses, including protective eyewear; addressing eyewear-related complaints; and educating patients on use and care of eyewear.	6
4. Contact Lenses	This area assesses the candidate's knowledge of fitting and prescribing contact lenses; addressing contact lens-related complaints and complications; and educating patients on use and care of contact lenses.	18
5. Management of Eye Disorders and Referrals	This area assesses the candidate's knowledge of managing glaucoma and other eye disorders; prescribing pharmaceutical and other therapies; referrals; and co-management with other health care providers.	12
6. Laws and Regulations	This area assesses the candidate's knowledge of laws and regulations related to optometric scope of practice; licensure requirements; advertising; professional conduct; staff supervision; and mandated reporting.	20
Total		100

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CHAPTER 1 | INTRODUCTION

PURPOSE OF THE OCCUPATIONAL ANALYSIS

The Board of Optometry (Board) requested that the Department of Consumer Affairs' Office of Professional Examination Services (OPES) conduct an occupational analysis (OA) as part of the Board's comprehensive review of optometry practice in California. The purpose of the OA is to identify critical job activities performed by optometrists licensed in California. The results of this OA provide a description of practice for the optometrist profession that can then be used to review the National Board of Examiners in Optometry licensing examination and to develop the California Optometry Laws and Regulations Examination.

CONTENT VALIDATION STRATEGY

OPES used a content validation strategy to ensure that the OA reflected the actual tasks performed by licensed optometrists. OPES incorporated the technical expertise of California-licensed optometrists throughout the OA process to ensure that the identified task and knowledge statements directly reflect requirements for performance in current practice.

PARTICIPATION OF SUBJECT MATTER EXPERTS

The Board selected California-licensed optometrists to participate as subject matter experts (SMEs) during the phases of the OA. These SMEs were selected from a broad range of practice settings, geographic locations, and experience backgrounds. The SMEs provided information regarding the different aspects of current optometry practice during the development phase of the OA. The SMEs also provided technical expertise during two workshops that were convened to evaluate and refine the content of task and knowledge statements before the administration of the OA questionnaire. After the questionnaire's administration, OPES convened a third group of SMEs to review the results and finalize the examination outline, which ultimately provides the basis of the description of practice. In addition, OPES convened a final group of SMEs to determine the content and weights for the California Optometry Laws and Regulations examination outline.

ADHERENCE TO LEGAL STANDARDS AND GUIDELINES

Licensing, certification, and registration programs in the State of California adhere strictly to federal and state laws and regulations, professional guidelines, and technical standards. For the purpose of occupational analyses, the following laws and guidelines are authoritative:

- California Business and Professions Code section 139.
- Uniform Guidelines on Employee Selection Procedures (1978), Code of Federal Regulations, Title 29, Section 1607.
- California Fair Employment and Housing Act, Government Code section 12944.
- *Principles for the Validation and Use of Personnel Selection Procedures* (2003), Society for Industrial and Organizational Psychology (SIOP).
- *Standards for Educational and Psychological Testing* (2014), American Educational Research Association, American Psychological Association, and National Council on Measurement in Education.

For a licensure program to meet these standards, it must be solidly based upon the job activities required for practice.

DESCRIPTION OF OCCUPATION

The optometry occupation is described as follows in section 3041(a) of the California Business and Professions (B&P) Code:

(a) The practice of optometry includes the prevention and diagnosis of disorders and dysfunctions of the visual system, and the treatment and management of certain disorders and dysfunctions of the visual system, as well as the provision of habilitative or rehabilitative optometric services, and is the doing of any or all of the following:

(1) The examination of the human eye or eyes, or its or their appendages, and the analysis of the human vision system, either subjectively or objectively.

(2) The determination of the powers or range of human vision and the accommodative and refractive states of the human eye or eyes, including the scope of its or their functions and general condition.

(3) The prescribing or directing the use of, or using, any optical device in connection with ocular exercises, visual training, vision training, or orthoptics.

(4) The prescribing of contact and spectacle lenses for, or the fitting or adaptation of contact and spectacle lenses to, the human eye, including lenses that may be classified as drugs or devices by any law of the United States or of this state.

(5) The use of topical pharmaceutical agents for the purpose of the examination of the human eye or eyes for any disease or pathological condition.

B&P Code section 3041 contains more detailed information on the scope of practice for optometrists. This code section may be consulted by accessing the California Legislative Information database at <http://leginfo.legislature.ca.gov/faces/codes.xhtml>.

CHAPTER 2 | OCCUPATIONAL ANALYSIS QUESTIONNAIRE

SUBJECT MATTER EXPERT INTERVIEWS

The Board provided OPES with a list of California-licensed optometrists to contact for telephone interviews. During the semi-structured interviews, the optometrists were asked to identify all of the activities they perform that are specific to the optometrist profession. The optometrists outlined major content areas of their practice and confirmed the tasks performed in each content area. The optometrists were also asked to identify the knowledge necessary to perform each task safely and competently.

TASK AND KNOWLEDGE STATEMENTS

OPES test specialists integrated information gathered from the telephone interviews and from literature reviews of the profession (e.g., previous OA reports, articles, industry publications) to develop preliminary lists of task and knowledge statements. The statements were then organized into major content areas of practice.

In March 2018, OPES facilitated a workshop with nine California-licensed optometrist SMEs from diverse backgrounds (i.e., years licensed, specialty, location of practice) to evaluate the task and knowledge statements for technical accuracy and comprehensiveness. The SMEs also assigned each statement to the appropriate content area and verified that the content areas were independent and nonoverlapping. In addition, the SMEs performed a preliminary linkage of the task and knowledge statements to ensure that every task had a related knowledge statement and every knowledge statement had a related task. Additional task and knowledge statements were created as needed to complete the scope of the content areas.

In July 2018, OPES facilitated a second workshop with eight California-licensed optometrist SMEs. During this workshop, the SMEs continued to refine the task and knowledge statements and finished the preliminary linkage. The SMEs also verified proposed demographic questions for the OA questionnaire.

Once the lists of task and knowledge statements and the demographic-based questions were verified, OPES used the information to develop an online questionnaire that was sent to a large sample of California-licensed optometrists.

QUESTIONNAIRE DEVELOPMENT

OPES test specialists developed an online OA questionnaire soliciting California-licensed optometrists' ratings of the task and knowledge statements for analysis. The surveyed optometrists were instructed to rate each task in terms of how often they perform the task in their current practice (Frequency) and in terms of how important the task is to performance in their current practice (Importance). In addition, they were instructed to rate each knowledge statement in terms of how important that knowledge is to performance of tasks in their current practice (Importance). The questionnaire also included a demographic section for purposes of developing an accurate profile of the respondents and to allow for further analyses of the respondents' ratings. The questionnaire can be found in Appendix E.

PILOT STUDY

Before administering the final questionnaire, OPES conducted a pilot study of the online questionnaire. The draft questionnaire was reviewed by the group of 15 SMEs who had participated in the interviews and the March and July 2018 workshops. Nine of the 15 SMEs reviewed the online questionnaire and provided information about the technical accuracy of the task and knowledge statements, online navigation, and ease of use of the questionnaire. OPES used this feedback to develop the final questionnaire.

CHAPTER 3 | RESPONSE RATE AND DEMOGRAPHICS

SAMPLING STRATEGY AND RESPONSE RATE

OPES requested from the Board a list of optometrists who were actively licensed and had a mailing address in California (a total of 6,826 licensees). Of these optometrists, OPES selected 5,232 (77%) who had provided the Board with an email address. On behalf of the Board, OPES emailed the sample of 5,232 optometrists in August 2018. The email invited them to complete the OA questionnaire online. The OA questionnaire invitation email can be found in Appendix D. Of the 5,232 sampled optometrists, 305 did not receive the survey because they had incorrect addresses or because they had previously opted out of all surveys from the software provider.

Of the 4,927 optometrists contacted, a total of 1,237 optometrists, or 25.1% of the sample of optometrists, responded by accessing the web-based questionnaire. The final sample size included in the data analysis was 563 respondents, or 11.4% of the population contacted. This response rate reflects two adjustments. First, data from respondents who indicated that they were not currently licensed and practicing as optometrists in California were excluded from analysis. Second, incomplete and partially completed questionnaires were removed from the sample. Based on a review of the demographic composition, the respondent sample is representative of the population of California optometrists.

DEMOGRAPHIC SUMMARY

Table 1 shows that 23.1% of the respondents reported that they had been practicing as a licensed optometrist for 5 years or less, 12.1% reported practicing between 6 and 10 years, 19.4% reported practicing between 11 and 20 years, and 45.5% reported practicing for more than 20 years.

Table 2 shows that 41.6% of the respondents reported spending between 40 and 49 hours per week working as a licensed optometrist, and that 31.6% reported spending between 30 and 39 hours per week. Table 3 shows that 68.2% obtained their optometry degree in California.

Table 4 shows that 40.1% of respondents reported that their job title is sole owner, while 24.9% reported having the job title of staff optometrist. Table 5 shows that 54.4% of respondents reported private practice as their primary work setting with 12.1% of respondents indicating corporation and 11.5% of respondents indicating group practice. Table 6 shows that 90.4% reported working in an urban area.

Table 7 shows that 73.7% of respondents reported that their primary area of practice is general practice. Table 8 shows that 46.9% of respondents reported holding TLG certification while 29.1% reported being TPA-certified.

Tables 9, 10, and 11 and Figures 9, 10, and 11 show the breadth of optometric services, exams, and activities performed by respondents. The services performed most often were refraction (mean frequency = 4.83 out of 5.00) and contact lens fitting/dispensing (mean frequency = 4.10 out of 5.00). The exams performed most often were routine comprehensive exam (mean frequency = 4.81 out of 5.00) and contact lens exam (mean frequency = 4.36 out of 5.00). The activities performed most often were general health screening (mean frequency = 3.34 out of 5.00) and co-management with medical specialists (mean frequency = 3.26 out of 5.00).

More detailed demographic information from respondents can be found in Tables 1–12 and Figures 1–11.

**TABLE 1 – NUMBER OF YEARS LICENSED AS AN OPTOMETRIST
IN CALIFORNIA**

YEARS	NUMBER (N)	PERCENT
0 to 5 years	130	23.1
6 to 10 years	68	12.1
11 to 20 years	109	19.4
21 or more years	256	45.5
Total	563	100.0*

*NOTE: Percentages do not add to 100 due to rounding.

**FIGURE 1 – NUMBER OF YEARS LICENSED AS AN OPTOMETRIST IN
CALIFORNIA**

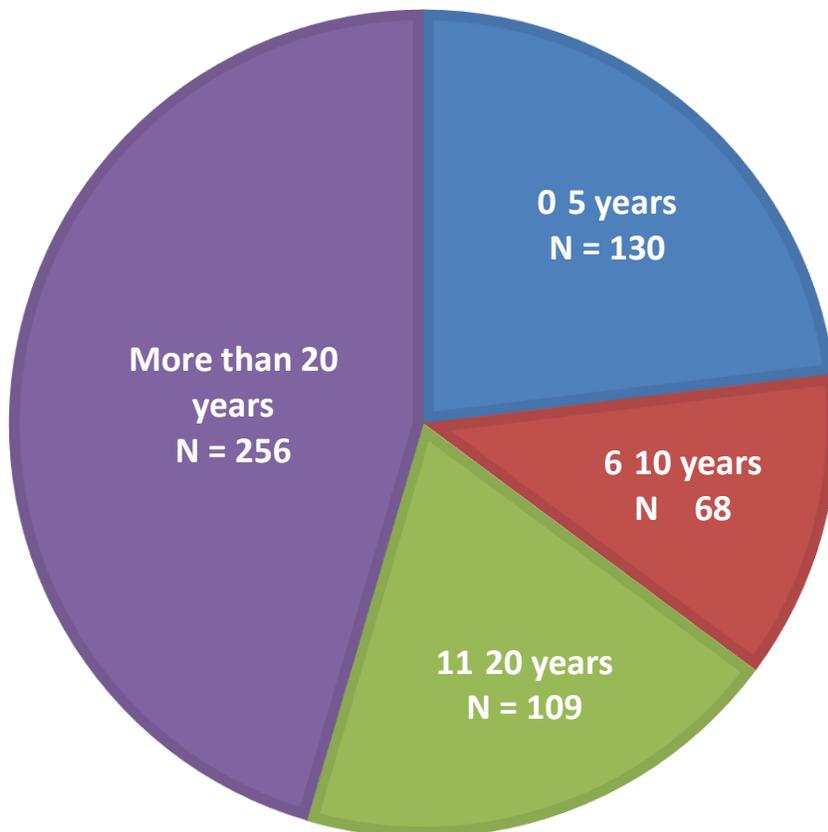


TABLE 2 – NUMBER OF HOURS PER WEEK WORKED AS A LICENSED OPTOMETRIST

HOURS	NUMBER (N)	PERCENT
0 to 9 hours	21	3.7
10 to 19 hours	36	6.4
20 to 29 hours	64	11.4
30 to 39 hours	178	31.6
40 to 49 hours	234	41.6
50 or more hours	29	5.2
Missing	1	0.2
Total	563	100.0*

*NOTE: Percentages do not add to 100 due to rounding.

FIGURE 2 – NUMBER OF HOURS PER WEEK WORKED AS A LICENSED OPTOMETRIST

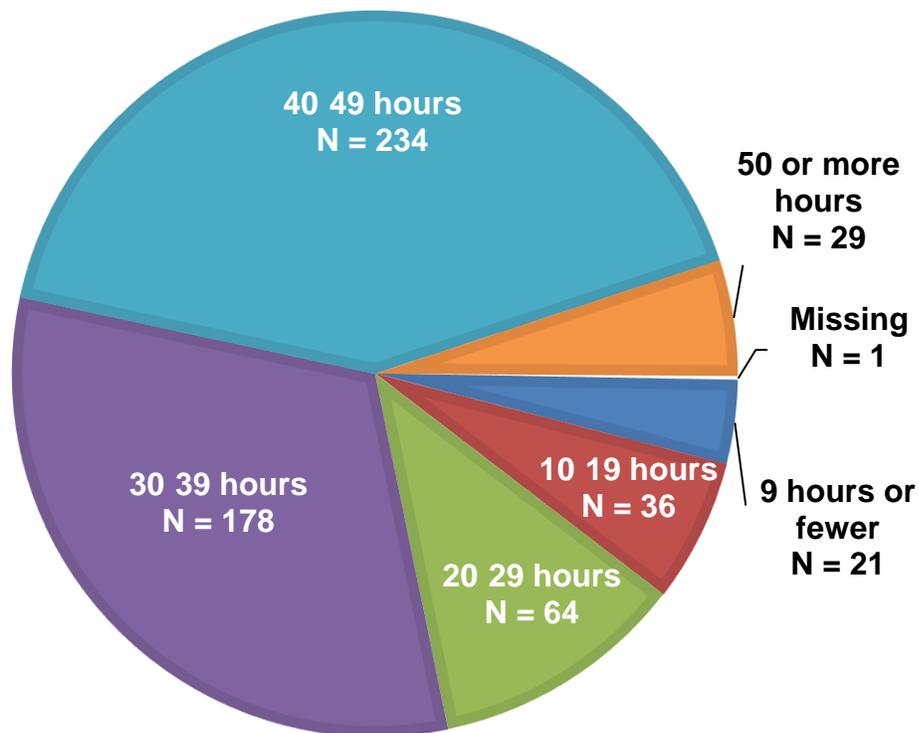


TABLE 3 – LOCATION OF EDUCATION FOR DEGREE IN OPTOMETRY

LOCATION	NUMBER (N)	PERCENT
In California	384	68.2
In a state other than California	177	31.4
Outside the U.S.	1	0.2
Missing	1	0.2
Total	563	100.0

FIGURE 3 – LOCATION OF EDUCATION FOR DEGREE IN OPTOMETRY

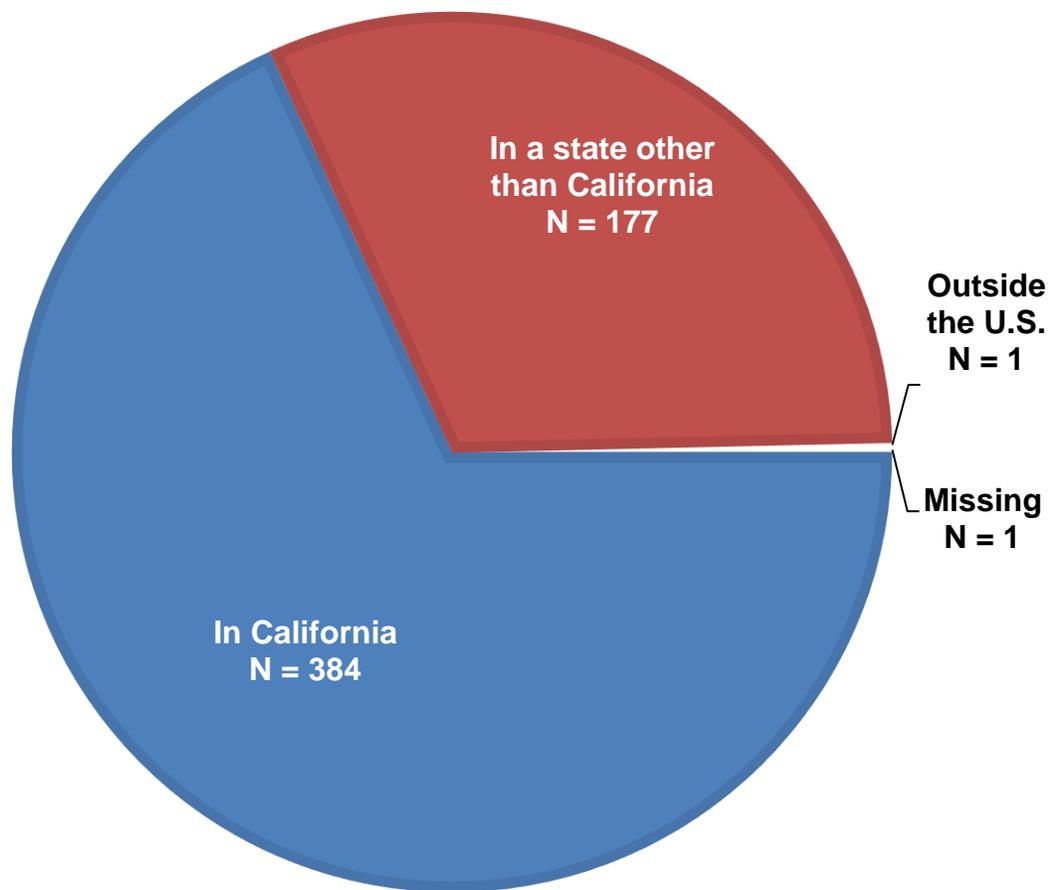


TABLE 4 – JOB TITLE

JOB TITLE	NUMBER (N)	PERCENT
Sole owner / Principal	226	40.1
Associate	93	16.5
Partner	45	8.0
Manager / Supervisor	12	2.1
Staff optometrist	140	24.9
Consultant	3	0.5
Educator	13	2.3
Per diem	31	5.5
Total	563	100*

*NOTE: Percentages do not add to 100 due to rounding.

FIGURE 4 – JOB TITLE

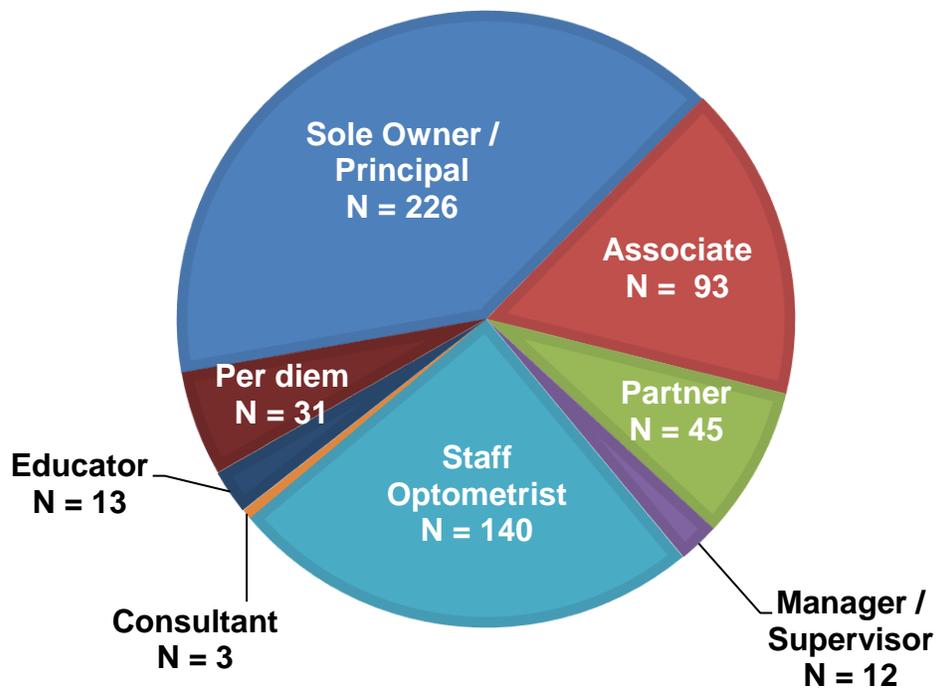


TABLE 5 – PRIMARY WORK SETTING

WORK SETTING	NUMBER (N)	PERCENT
Private practice	306	54.4
Group practice	65	11.5
Educational facility	20	3.6
Partnership	20	3.6
Corporation	68	12.1
Private hospital	1	0.2
HMO facility	43	7.6
Federal facility (nonmilitary)	6	1.1
Military / veterans hospital or clinic	5	0.9
State facility	2	0.4
County facility	5	0.9
Municipal facility	1	0.2
Other	21	3.7
Total	563	100.0*

*NOTE: Percentages do not add to 100 due to rounding.

FIGURE 5 – PRIMARY WORK SETTING

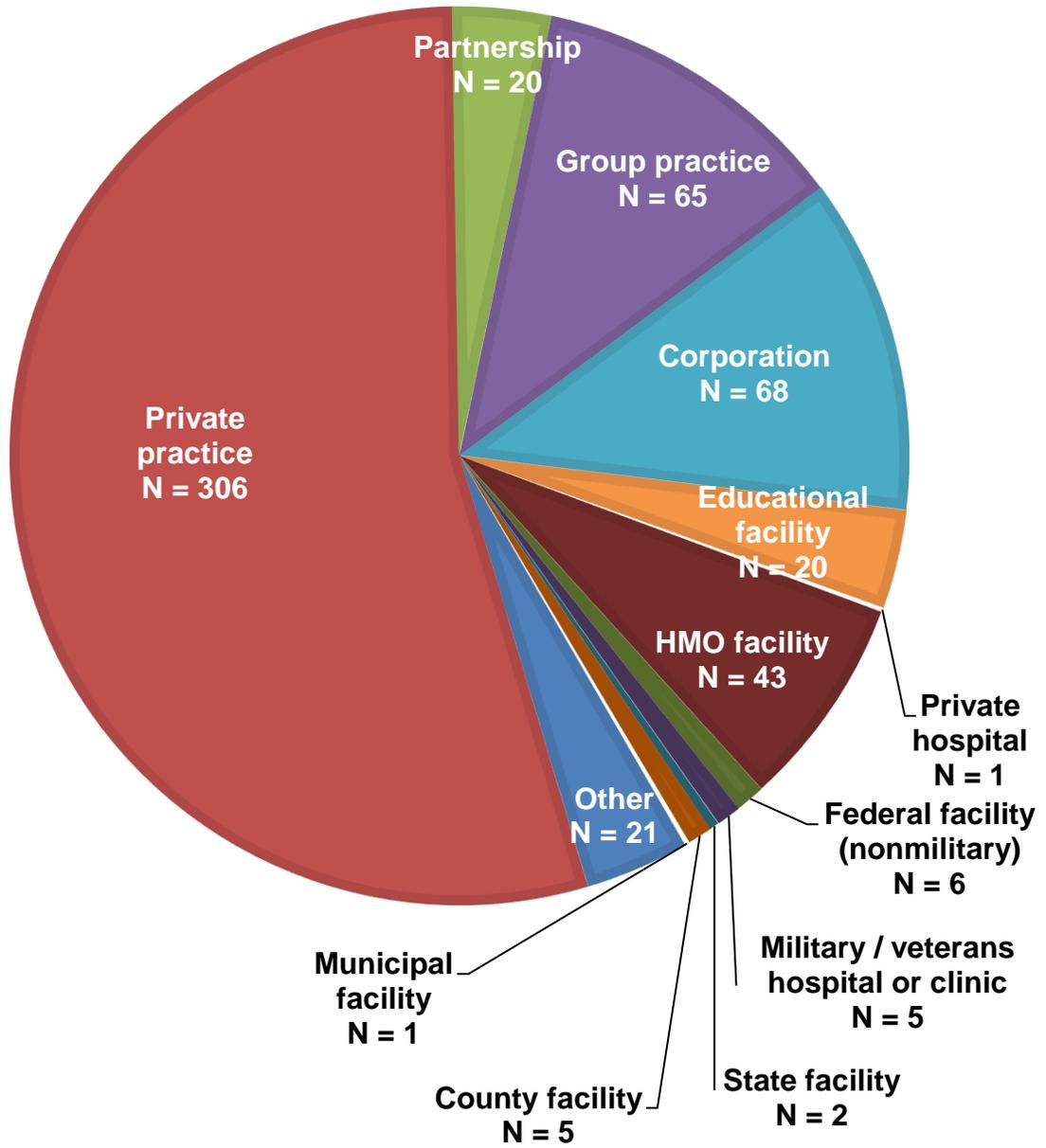


TABLE 6 – LOCATION OF PRIMARY WORK SETTING

LOCATION	NUMBER (N)	PERCENT
Urban (more than 50,000 people)	509	90.4
Rural (fewer than 50,000 people)	54	9.6
Total	563	100.0

FIGURE 6 – LOCATION OF PRIMARY WORK SETTING

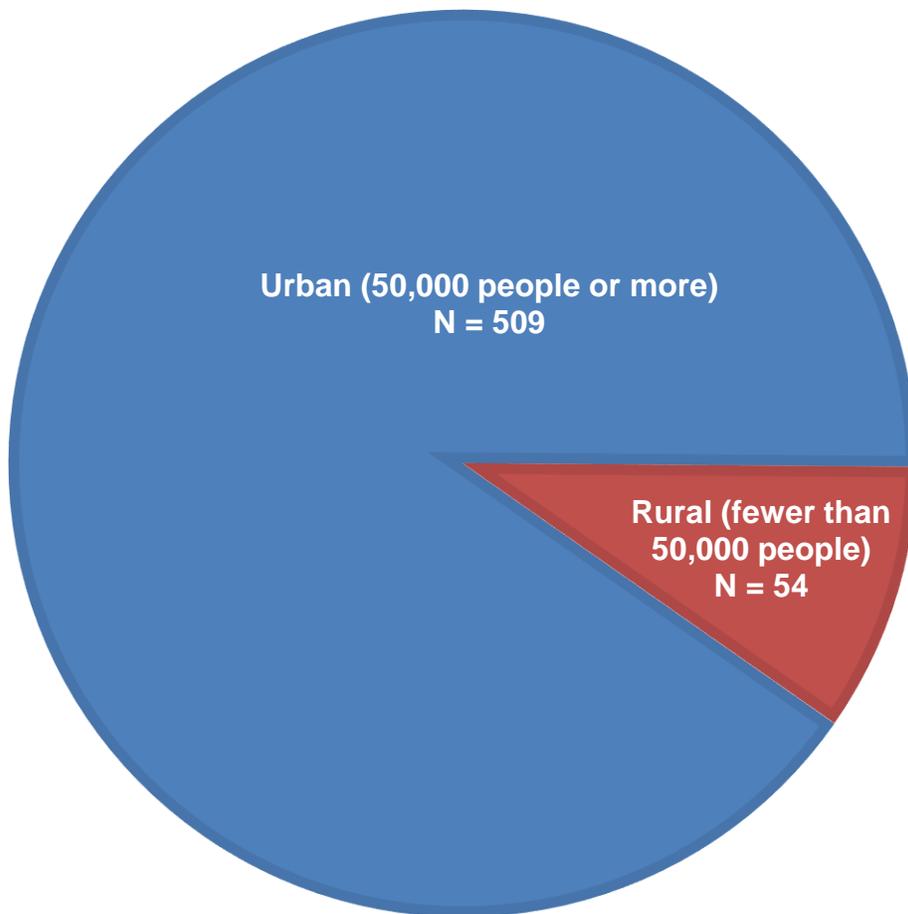


TABLE 7 – PRIMARY AREA OF PRACTICE

AREA OF PRACTICE	NUMBER (N)	PERCENT
General Practice	415	73.7
Spectacles / protective eyewear	10	1.8
Contact lenses	25	4.4
Pathology / patient management	36	6.4
Low vision	2	0.4
Binocular therapy / vision training	9	1.6
Co-management with medical specialists	16	2.8
Dry eye	6	1.1
Pediatrics	11	2.0
Other	33	5.9
Total	563	100.0*

*NOTE: Percentages do not add to 100 due to rounding.

FIGURE 7 – PRIMARY AREA OF PRACTICE

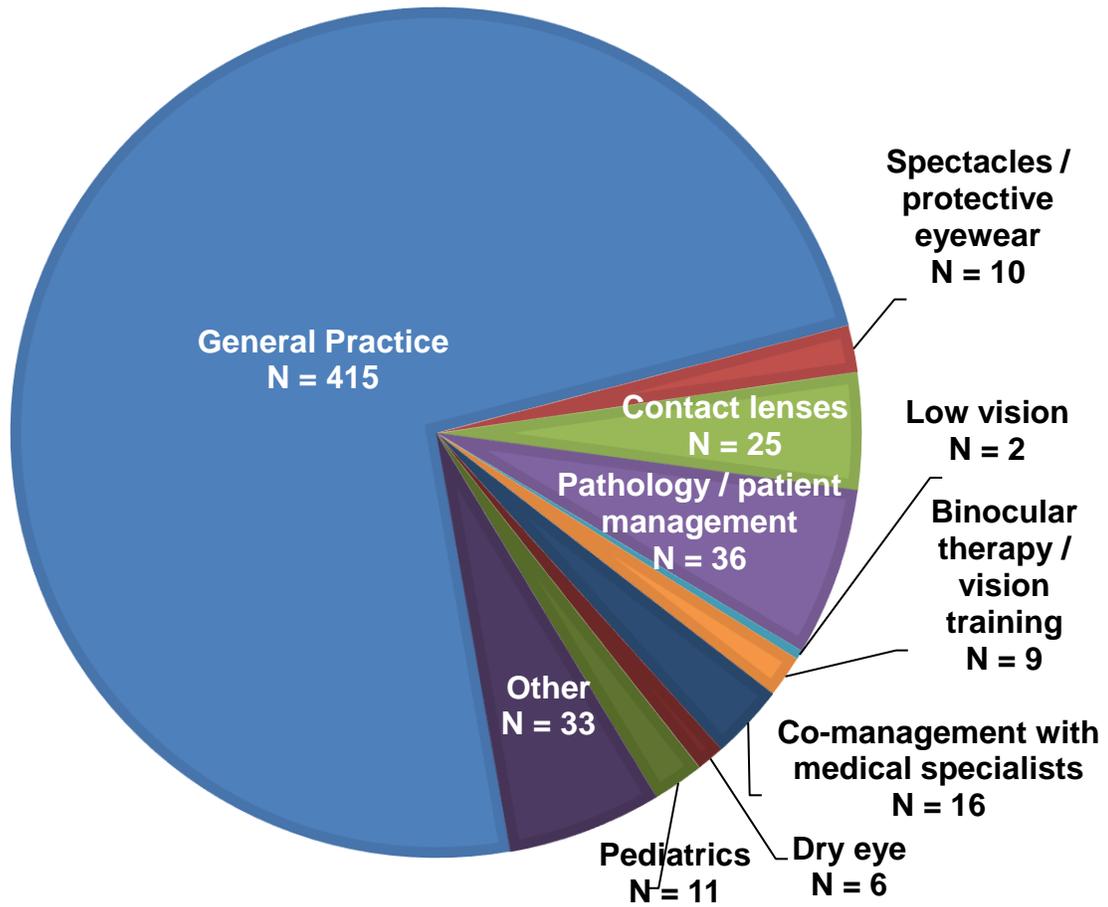


TABLE 8 – CERTIFICATION HELD

CERTIFICATION	NUMBER (N)	PERCENT
DPA	5	0.9
TPA	164	29.1
TPL	40	7.1
TPG	84	14.9
TLG	264	46.9
Missing	6	1.1
Total	563	100.0

FIGURE 8 – CERTIFICATION HELD

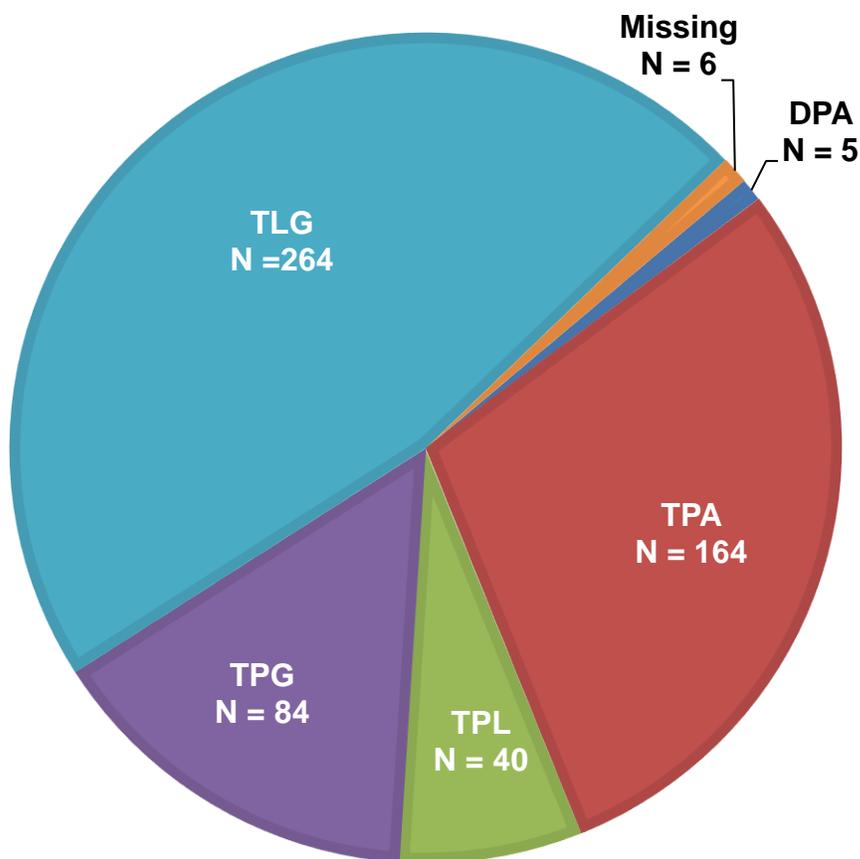
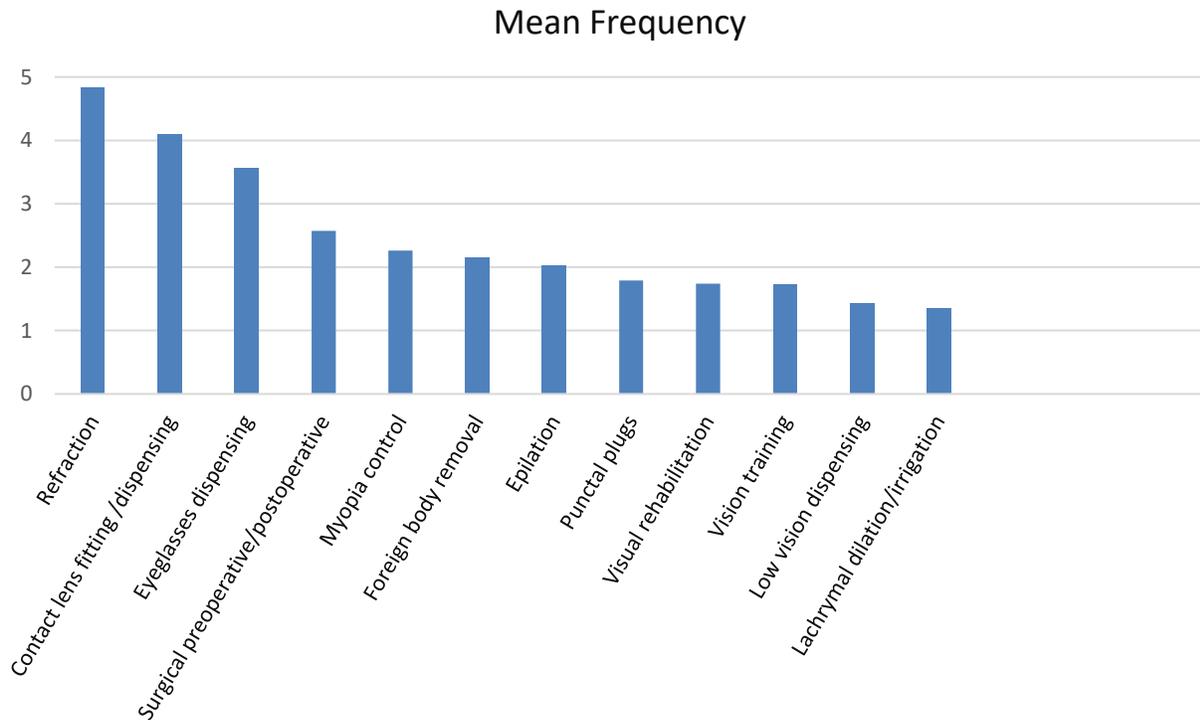


TABLE 9 – MEAN FREQUENCY OF THE SERVICES PERFORMED IN CURRENT PRACTICE

TASK PERFORMED	NUMBER (N)	PERCENT	MEAN FREQUENCY*
Refraction	558	99.1	4.83
Contact lens fitting/dispensing	545	96.8	4.10
Eyeglasses dispensing	475	84.4	3.57
Surgical preoperative/postoperative	438	77.8	2.58
Myopia control	433	76.9	2.26
Foreign body removal	532	94.5	2.16
Epilation	513	91.1	2.03
Punctal plugs	404	71.8	1.79
Visual rehabilitation	159	28.2	1.74
Vision training	196	34.8	1.73
Low vision dispensing	224	39.8	1.43
Lachrymal dilation/irrigation	261	46.4	1.36

*NOTE: Mean Frequency 1-Rarely, 2-Seldom, 3-Regularly, 4-Often, 5-Very Often. Includes only respondents who reported performing the service.

FIGURE 9 – SERVICES PERFORMED IN CURRENT PRACTICE – RANKED IN DESCENDING ORDER



*NOTE: Mean Frequency 1-Rarely, 2-Seldom, 3-Regularly, 4-Often, 5-Very Often. Includes only respondents who reported performing the service.

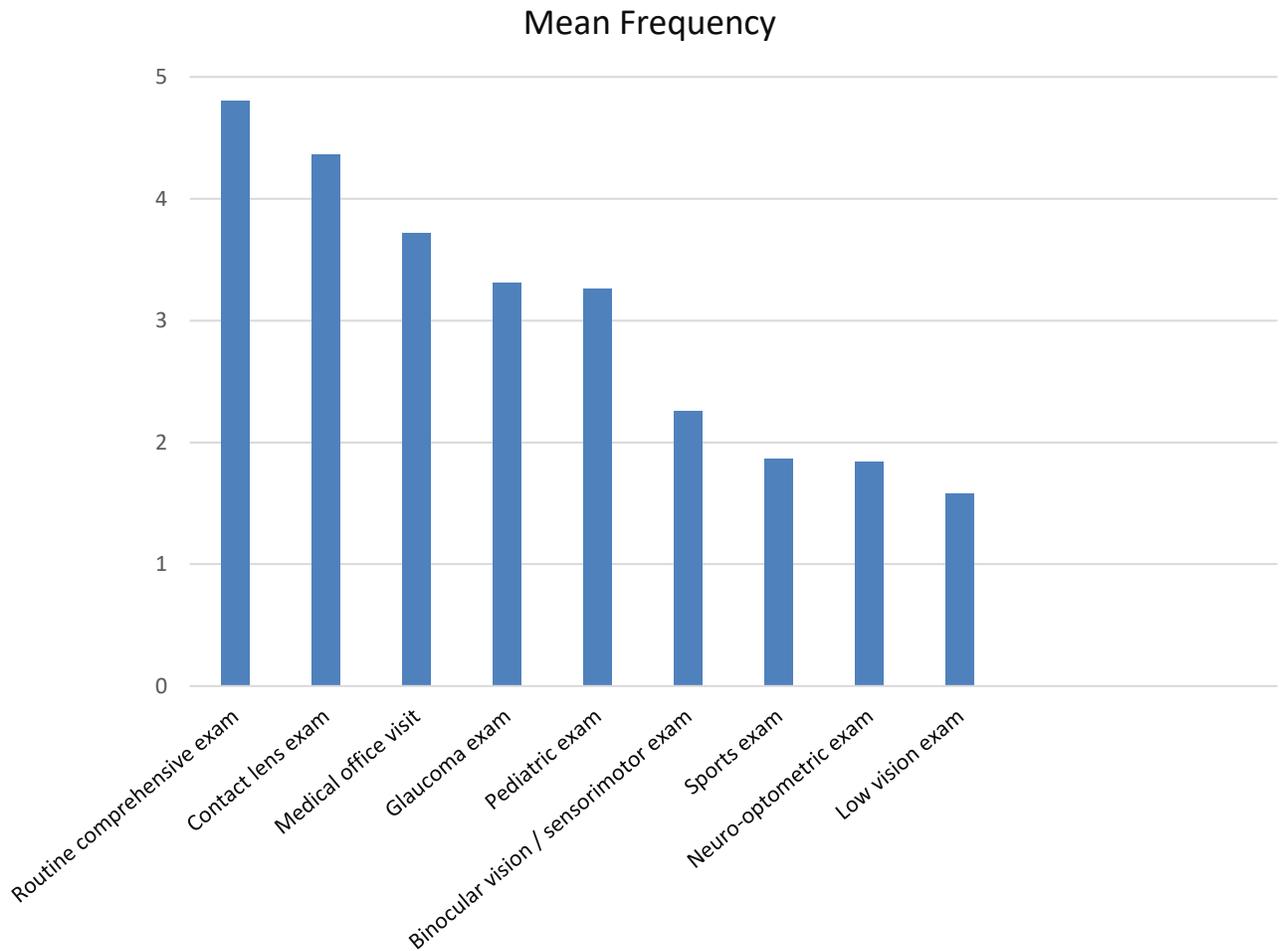
TABLE 10 – MEAN FREQUENCY OF THE EXAMS PERFORMED IN CURRENT PRACTICE

TASK PERFORMED	NUMBER (N)	PERCENT	MEAN FREQUENCY*
Routine comprehensive exam	560	99.5	4.81
Contact lens exam	545	96.8	4.36
Medical office visit	548	97.3	3.72
Glaucoma exam	492	87.4	3.31
Pediatric exam	525	93.3	3.26
Binocular vision / sensorimotor exam	399	70.1	2.26
Sports exam	312	55.4	1.87
Neuro-optometric exam	339	60.2	1.84
Low vision exam	248	44.0	1.58

*NOTE: Mean Frequency 1-Rarely, 2-Seldom, 3-Regularly, 4-Often, 5-Very Often. Includes only respondents who reported performing the service.

NOTE: Respondents (N = 563) were asked to select all that apply.

FIGURE 10 – EXAMS PERFORMED IN CURRENT PRACTICE – RANKED IN DESCENDING ORDER



*NOTE: Mean Frequency 1-Rarely, 2-Seldom, 3-Regularly, 4-Often, 5-Very Often. Includes only respondents who reported performing the service.

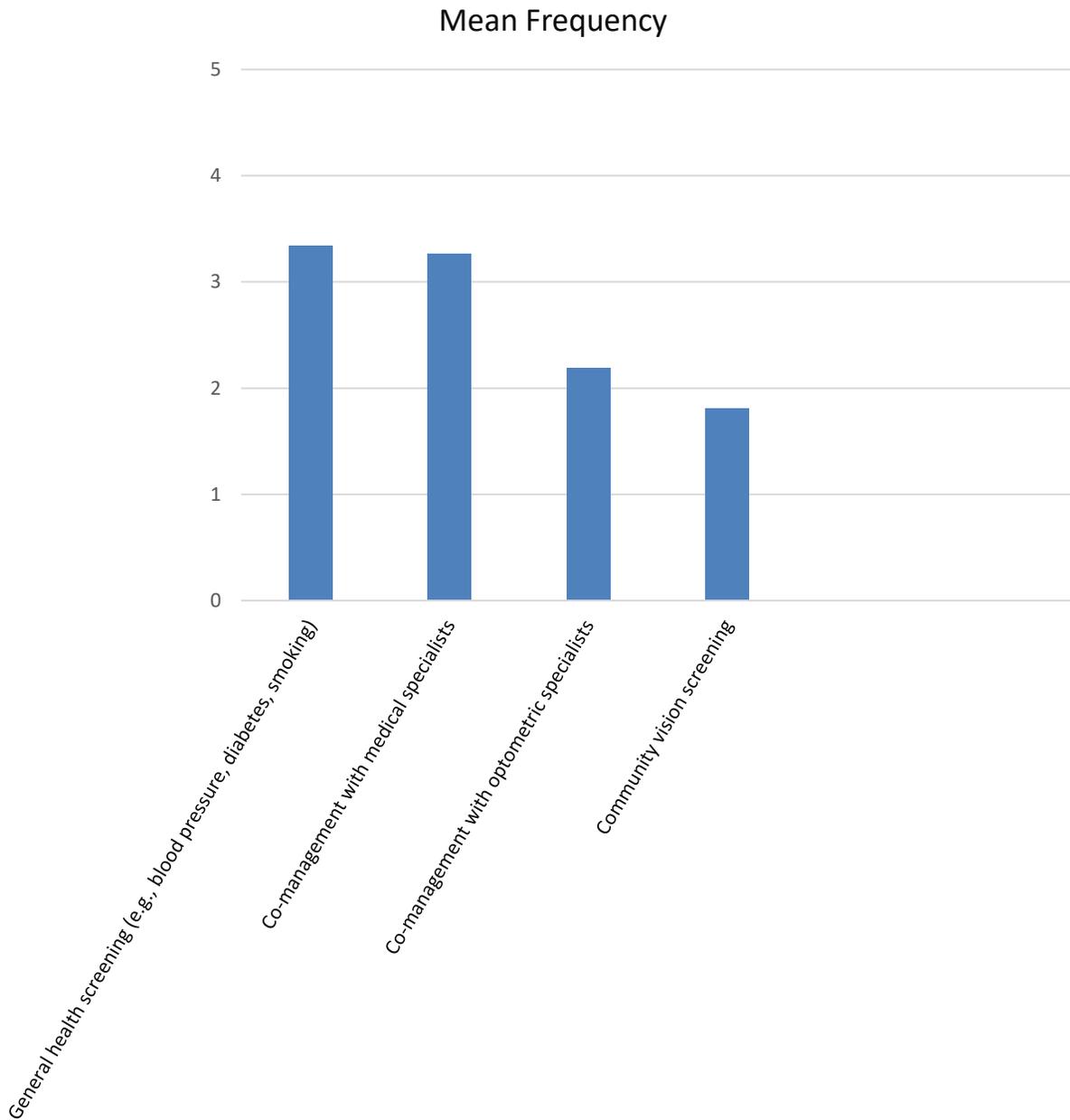
TABLE 11 – MEAN FREQUENCY OF THE ACTIVITIES PERFORMED IN CURRENT PRACTICE

TASK PERFORMED	NUMBER (N)	PERCENT	MEAN FREQUENCY*
General health screening (e.g., blood pressure, diabetes, smoking)	497	88.3	3.34
Co-management with medical specialists	530	94.1	3.26
Co-management with optometric specialists	480	85.3	2.19
Community vision screening	346	61.5	1.80

*Mean Frequency 1-Rarely, 2-Seldom, 3-Regularly, 4-Often, 5-Very Often. Includes only respondents who reported performing the service.

*NOTE: Respondents (N = 563) were asked to select all that apply.

FIGURE 11 – ACTIVITIES PERFORMED IN CURRENT PRACTICE – RANKED IN DESCENDING ORDER



*NOTE: Mean Frequency 1-Rarely, 2-Seldom, 3-Regularly, 4-Often, 5-Very Often. Includes only respondents who reported performing the service.

TABLE 12 – RESPONDENTS BY REGION*

REGION NAME	NUMBER (N)	PERCENT
Los Angeles County and Vicinity	205	36.4
San Francisco Bay Area	123	21.8
San Diego County and Vicinity	51	9.1
San Joaquin Valley	47	8.3
Riverside and Vicinity	39	6.9
Sacramento Valley	31	5.5
South Coast and Central Coast	28	5.0
Sierra Mountain Valley	21	3.7
North Coast	11	2.0
Shasta–Cascade	6	1.1
Missing	1	0.2
Total	563	100.0

*NOTE: Appendix A shows a more detailed breakdown of the frequencies by region.

CHAPTER 4 | DATA ANALYSIS AND RESULTS

RELIABILITY OF RATINGS

OPES evaluated the task and knowledge ratings obtained through the questionnaire with a standard index of reliability called coefficient alpha (α) that ranges from 0 to 1. Coefficient alpha is an estimate of the internal consistency of the respondents' ratings of the task and knowledge statements. A higher coefficient value indicates more consistency between respondent ratings. Coefficients were calculated for all respondent ratings.

Table 13 displays the reliability coefficients for the task statements by content area. The overall ratings of task frequency and task importance across content areas were highly reliable (α Frequency = .957 and α Importance = .966.) Table 14 displays the reliability coefficients for the knowledge statement rating scale in each content area. The overall ratings of knowledge importance across content areas were highly reliable (α = .994). These results indicate that the responding optometrists rated the task and knowledge statements consistently throughout the questionnaire.

TABLE 13 – TASK SCALE RELIABILITY

CONTENT AREA		Number of Tasks	α Frequency	α Importance
1.	Patient Examinations	30	.897	.917
2.	Diagnoses and Treatment Plans	7	.840	.860
3.	Spectacle and Protective Eyewear	7	.804	.838
4.	Contact Lenses	16	.932	.936
5.	Management of Eye Disorders and Referrals	13	.878	.891
6.	Laws and Regulations	18	.797	.855
Total		91	.957	.966

TABLE 14 – KNOWLEDGE SCALE RELIABILITY

CONTENT AREA		Number of Knowledge Statements	α Importance
1.	Patient Examinations	69	.984
2.	Diagnoses and Treatment Plans	23	.946
3.	Spectacle and Protective Eyewear	14	.966
4.	Contact Lenses	36	.986
5.	Management of Eye Disorders and Referrals	43	.977
6.	Laws and Regulations	38	.981
Total		223	.994

TASK CRITICALITY INDICES

OPES convened a workshop comprised of six optometrist SMEs in October 2018. The SMEs reviewed the mean frequency and importance rating for each task and its criticality index and evaluated the mean importance ratings for all knowledge statements. The purpose of this workshop was to identify the essential tasks and knowledge required for safe and effective optometry practice at the time of licensure.

To calculate the criticality indices of the task statements, OPES test specialists used the following formula. For each respondent, OPES first multiplied the frequency rating (F_i) and the importance rating (I_i) for each task. Next, OPES averaged the multiplication products across respondents as shown below.

$$\text{Task criticality index} = \text{mean } [(F_i) \times (I_i)]$$

The task statements were then sorted by descending order of their criticality index and by content area. The task statements, their mean frequency and importance ratings, and their criticality indices are presented in Appendix B.

OPES test specialists instructed the SMEs to identify a cutoff value in order to determine if any of the tasks did not have a high enough criticality index to be retained. Based on the SMEs' opinion of the relative importance of tasks to optometry practice, the SMEs determined that no cutoff value should be established and that all task statements should remain in the examination outline.

KNOWLEDGE IMPORTANCE RATINGS

To determine the importance of each knowledge statement, the mean importance rating for each knowledge statement was calculated. The knowledge statements were then sorted by descending order of their mean importance rating and by content area. The knowledge statements and their mean importance ratings are presented in Appendix C.

The SMEs in the October 2018 workshop also reviewed the knowledge statement importance ratings. After reviewing the mean importance ratings and considering their relative importance to optometry practice, the SMEs determined that no cutoff value should be established and that all knowledge statements should remain in the examination outline.

In further evaluating the tasks and knowledge statements, the SMEs determined that pediatric optometry should be specifically addressed. The SMEs developed T92 and K224 to add to the Laws and Regulations content area. The SMEs also determined that T60, "Monitor and evaluate patient physiological response to contact lens wear," and T54, "Evaluate the contact lens modality for patients (e.g., daily wear, extended wear, flexible wear)," addressed the same practice-related activity. To avoid redundancy, T60 was removed.

CHAPTER 5 | EXAMINATION OUTLINE

TASK-KNOWLEDGE LINKAGE

The SMEs who participated in the October 2018 workshop also reviewed the preliminary assignments of the task and knowledge statements to content areas and determined the linkage of specific knowledge statements to task statements. The content areas were developed so that they described major areas of practice.

CONTENT AREAS AND WEIGHTS

The preliminary examination weights were calculated by dividing the sum of the criticality indices for each content area by the overall sum of the criticality indices for all tasks, as shown below.

$$\frac{\textit{Sum of Criticality Indices for Tasks in Content Area}}{\textit{Sum of Criticality Indices for All Tasks}} = \textit{Percent Weight of Content Area}$$

The October 2018 workshop SMEs evaluated these preliminary weights in relation to the group of tasks and knowledge within each content area, the linkage between the tasks and knowledge, and the relative importance of the tasks and knowledge in each content area to optometry practice in California. The SMEs agreed that these preliminary weights reflect the relative importance of each content area to optometry practice in California.

A summary of the content area weights is presented in Table 15. The examination outline for the California optometrist profession is presented in Table 16.

TABLE 15 – CONTENT AREA WEIGHTS: OPTOMETRIST

CONTENT AREA		Weights
1.	Patient Examinations	34
2.	Diagnosis and Treatment Plans	10
3.	Spectacles and Protective Eyewear	6
4.	Contact Lenses	18
5.	Management of Eye Disorders and Referrals	12
6.	Laws and Regulations	20
Total		100

TABLE 16 – EXAMINATION OUTLINE FOR THE CALIFORNIA OPTOMETRIST PROFESSION

1. Patient Examinations (34%) – This area assesses the candidate’s knowledge of components of a comprehensive eye exam including obtaining chief complaint, obtaining patient history, and performing diagnostic testing procedures.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T1. Identify patient chief complaint, in addition to patient vision and ocular health history.	K1. Knowledge of the elements needed to complete a comprehensive ocular health history (e.g., prior surgeries). K2. Knowledge of methods to elicit chief complaint, symptoms, and ocular, medical, and family history.
T2. Obtain patient information regarding personal and family medical history.	K2. Knowledge of methods to elicit chief complaint, symptoms, and ocular, medical, and family history. K3. Knowledge of congenital and developmental syndromes and the effects on vision. K4. Knowledge of methods to elicit history of past injuries (e.g., head trauma).
T3. Obtain patient information regarding social history (e.g., smoking, drugs, and alcohol).	K5. Knowledge of methods to elicit patient use of smoking, drugs, and alcohol. K6. Knowledge of methods to elicit patient occupational and recreational activities.
T4. Obtain patient information regarding current medication and sensitivity to medication.	K7. Knowledge of patient medications that may induce eye or other disorders.
T5. Observe patient for alertness and orientation to person, place, and time.	K8. Knowledge of behavioral signs indicative of patient impairments.
T6. Observe patient to identify facial, head, and postural anomalies.	K9. Knowledge of common facial anomalies (e.g., ptosis) and health implications. K10. Knowledge of neurological conditions related to vision.
T7. Document patient visual acuities.	K11. Knowledge of methods to determine visual acuity of various patient populations. K12. Knowledge of pinhole acuity testing and interpretation.

1. Patient Examinations (34%) – This area assesses the candidate’s knowledge of components of a comprehensive eye exam including obtaining chief complaint, obtaining patient history, and performing diagnostic testing procedures

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T8. Test patient pupillary light responses and extraocular movement to determine neurological integrity.	K13. Knowledge of procedures to perform cranial-nerve assessments to determine patient neurological status. K14. Knowledge of methods to test for pupillary anomalies. K15. Knowledge of pupillary anomalies and their underlying causes.
T9. Verify patient existing corrective lens prescription for comparison.	K16. Knowledge of methods to determine parameters of existing spectacles or contact lenses.
T10. Test patient visual field for deficits.	K17. Knowledge of methods to perform visual field tests.
T11. Measure patient interpupillary distances.	K18. Knowledge of methods to measure patient interpupillary distance.
T12. Perform keratometry to assess the cornea.	K19. Knowledge of methods to interpret keratometry results.
T13. Perform diagnostic tests to assess patient binocular alignment and ocular movement.	K20. Knowledge of symptoms and clinical signs of binocular dysfunction. K21. Knowledge of methods to perform and interpret tests for defects in binocular alignment and eye movement (e.g., cover tests).
T14. Perform objective measurement to assess refractive status.	K22. Knowledge of methods to perform retinoscopy. K23. Knowledge of methods and procedures to determine prescription for corrective lenses.

1. Patient Examinations (34%) – This area assesses the candidate’s knowledge of components of a comprehensive eye exam including obtaining chief complaint, obtaining patient history, and performing diagnostic testing procedures.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T15. Perform subjective refraction to refine refractive status at distance and near.	K23. Knowledge of methods and procedures to determine prescription for corrective lenses. K24. Knowledge of procedures to perform subjective refraction at both distance and near. K25. Knowledge of methods to use Jackson cross cylinders to refine axis and power measurements. K26. Knowledge of methods to modify refractive examinations for low vision patients. K27. Knowledge of methods to refract with a trial frame and prescribe lenses.
T16. Perform binocular tests (e.g., heterophorias, ductions) to determine degree of ocular coordination.	K28. Knowledge of relationship between accommodation and convergence. K29. Knowledge of methods to perform tests for detecting eye suppression. K30. Knowledge of methods to determine patient near points of convergence and accommodation. K31. Knowledge of methods to differentiate accommodative and binocular dysfunction. K32. Knowledge of methods to perform and interpret tests for stereopsis. K33. Knowledge of methods to determine patient fixation disparity. K34. Knowledge of binocular tests using a phoropter. K35. Knowledge of methods to use prisms to determine patient binocular status.
T17. Conduct examinations to assess vision-related learning disorders.	K36. Knowledge of visual system developmental stages. K37. Knowledge of motor and visual developmental milestones in children. K38. Knowledge of examination procedures needed to identify visual processing disorders. K39. Knowledge of symptoms of learning-related disorders.

1. Patient Examinations (34%) – This area assesses the candidate’s knowledge of components of a comprehensive eye exam including obtaining chief complaint, obtaining patient history, and performing diagnostic testing procedures.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T18. Perform accommodative tests to assess ocular focus ability.	K40. Knowledge of methods to measure accommodative status.
T19. Measure patient intraocular pressures to screen for pressure-related conditions.	K41. Knowledge of topical anesthetics, dyes, or combinations and their applications. K42. Knowledge of procedures of instilling dyes, anesthetics, or combinations. K43. Knowledge of methods to remedy adverse effects of instilling dyes, anesthetics, or combination. K44. Knowledge of Goldmann and other tonometry methods.
T20. Perform biomicroscopy to aid in assessing patient ocular health.	K45. Knowledge of eye anatomy and the normal range of variation. K46. Knowledge of common anomalies of the anterior segment and implications for vision and health. K47. Knowledge of techniques to perform biomicroscopy to detect anomalies. K49. Knowledge of adverse reactions and complications of UV and other radiation. K50. Knowledge of ocular pathologies and the extent to which those effects are remediable.
T21. Evert patient eyelids to identify diseases, foreign bodies, and allergies.	K51. Knowledge of procedures to evert patient eyelids and recognize diseases.
T22. Perform gonioscopy to determine the integrity of angle structures.	K45. Knowledge of eye anatomy and the normal range of variation. K48. Knowledge of methods and procedures for performing gonioscopy to evaluate angle structures and the fundus. K52. Knowledge of indications and contraindications of mydriatics and cycloplegics. K53. Knowledge of methods to manage adverse effects of mydriatics and cycloplegics.

1. Patient Examinations (34%) – This area assesses the candidate’s knowledge of components of a comprehensive eye exam including obtaining chief complaint, obtaining patient history, and performing diagnostic testing procedures.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T23. Use diagnostic pharmaceutical agents (DPAs) to facilitate refractive and ocular health assessment.	K42. Knowledge of procedures of instilling dyes, anesthetics, or combination. K43. Knowledge of methods to remedy adverse effects of instilling dyes, anesthetics, or combination. K52. Knowledge of indications and contraindications of mydriatics and cycloplegics. K53. Knowledge of methods to manage adverse effects of mydriatics and cycloplegics.
T24. Perform direct or binocular indirect ophthalmoscopy to assess health of posterior segment.	K45. Knowledge of eye anatomy and the normal range of variation. K49. Knowledge of adverse reactions and complications of UV and other radiation. K50. Knowledge of ocular pathologies and the extent to which those effects are remediable. K54. Knowledge of ocular manifestations of systemic diseases. K55. Knowledge of methods to perform direct and binocular indirect ophthalmoscopy to detect posterior segment anomalies. K56. Knowledge of indications of binocular indirect ophthalmoscopy with scleral depression. K57. Knowledge of common anomalies of the posterior segment, clinical signs, and implications for vision and health.
T25. Perform color deficiency tests when indicated by patient risk factors.	K61. Knowledge of color vision testing materials, procedures, and interpretation.
T26. Perform and interpret threshold visual field tests as indicated by history or prior test results.	K62. Knowledge of methods to measure and interpret threshold visual field. K63. Knowledge of methods used to localize the neural lesion causing a particular visual defect.

1. Patient Examinations (34%) – This area assesses the candidate’s knowledge of components of a comprehensive eye exam including obtaining chief complaint, obtaining patient history, and performing diagnostic testing procedures.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T27. Use and interpret specialty tests (e.g., pachymetry, optic nerve head analysis) for treatment or referral.	K50. Knowledge of ocular pathologies and the extent to which those effects are remediable. K62. Knowledge of methods to measure and interpret threshold visual field. K63. Knowledge of methods used to localize the neural lesion causing a particular visual defect. K65. Knowledge of methods to identify the visual conditions of low vision patients.
T28. Use Amsler grid to reveal central field irregularities.	K67. Knowledge of Amsler grid test procedures and interpretation.
T29. Take and evaluate patient blood pressure.	K58. Knowledge of hypertension and its effects on systemic and ocular health. K68. Knowledge of methods to take patient blood pressure with standard measuring equipment. K69. Knowledge of conditions that require evaluation of patient blood pressure.
T30. Recognize patient random serum glucose levels.	K59. Knowledge of diabetes and its effects on systemic and ocular health.

2. Diagnoses and Treatment Plans (10%) – This area assesses the candidate’s ability to make diagnoses and prepare treatment plans.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T31. Explain refractive treatment options to patients.	K70. Knowledge of methods to explain refractive treatment options. K71. Knowledge of methods to eliminate symptoms of discomfort or diplopia.
T32. Make differential diagnoses based on symptoms, history, physical examination, and test results.	K72. Knowledge of testing procedures to confirm the presence of ocular and visual disorders. K73. Knowledge of common causes and sequelae of eye disorders. K74. Knowledge of methods to recognize systemic diseases that produce similar ocular presentations. K75. Knowledge of ocular pathologies and ocular immunological responses. K76. Knowledge of methods to perform differential diagnostic procedures. K77. Knowledge of situations that require an order or referral for imaging or laboratory tests. K78. Knowledge of pertinent laboratory test findings and their implications for patient symptoms and clinical signs. K79. Knowledge of common drugs and medications and their potential interactions and adverse reactions. K80. Knowledge of the effects of acute, chronic, and recurrent systemic disorders on the eyes and vision.
T33. Confirm diagnoses using diagnostic findings, consultative reports, and references.	K64. Knowledge of etiology of low vision. K72. Knowledge of testing procedures to confirm the presence of ocular and visual disorders. K78. Knowledge of pertinent laboratory test findings and their implications for patient symptoms and clinical signs.

2. Diagnoses and Treatment Plans (10%) – This area assesses the candidate’s ability to make diagnoses and prepare treatment plans.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T34. Identify patients with systemic disorders that may affect the eyes or visual system.	K77. Knowledge of situations that require an order or referral for imaging or laboratory tests. K78. Knowledge of pertinent laboratory test findings and their implications for patient symptoms and clinical signs. K79. Knowledge of common drugs and medications and their potential interactions and adverse reactions. K80. Knowledge of the effects of acute, chronic, and recurrent systemic disorders on the eyes and vision. K81. Knowledge of methods to identify ocular manifestations of systemic diseases.
T35. Develop and communicate a treatment plan to address visual abnormalities and eye diseases and disorders.	K66. Knowledge of psychosocial aspects of low vision. K82. Knowledge of using eccentric fixation as a treatment option. K83. Knowledge of psychosomatic visual disorders and symptoms. K84. Knowledge of treatments and alternatives for common eye diseases and disorders. K85. Knowledge of the risks, benefits, and prognosis of treatments and alternatives for common eye diseases and disorders. K86. Knowledge of the relative cost of treatments and alternatives for common eye diseases and disorders. K87. Knowledge of methods for developing and modifying vision training programs. K88. Knowledge of methods for monitoring patient progress in vision training programs. K89. Knowledge of training methods to improve learning-related visual functions.
T36. Educate patients on maintaining visual health and integrity.	K90. Knowledge of occupational, recreational, and lifestyle factors that affect visual health and integrity.

2. Diagnoses and Treatment Plans (10%) – This area assesses the candidate’s ability to make diagnoses and prepare treatment plans.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T37. Refer patients to other specialists as indicated by history or examination findings.	K84. Knowledge of treatments and alternatives for common eye diseases and disorders. K85. Knowledge of the risks, benefits and prognosis of treatments and alternatives for common eye diseases and disorders. K91. Knowledge of factors that indicate a patient is legally blind. K92. Knowledge of factors that indicate a patient needs referral for neuro-optometric rehabilitation.

3. Spectacles and Protective Eyewear (6%) – This area assesses the candidate’s knowledge of prescribing ophthalmic frames and lenses including protective eyewear, addressing eyewear-related complaints, and educating patients on use and care of eyewear.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T38. Educate patients about frame and lens options to assist them in making an informed decision.	K93. Knowledge of advantages and disadvantages of particular lens types, designs, and materials. K95. Knowledge of prescribing supplemental spectacles for contact lens wearers. K96. Knowledge of patient adaptation when alternating between contact lenses and spectacles. K97. Knowledge of spectacle frame materials, types, and styles. K98. Knowledge of spectacle frame styles suitable for specific corrections and lens types. K99. Knowledge of care and limitations of specific lenses, tints, and coatings. K100. Knowledge of common needs for protective eyewear. K101. Knowledge of lens and prism corrections for binocular misalignment, latent hyperopia, or aniseikonia.
T39. Prescribe base curves and lens thicknesses that improve visual function, appearance, and comfort.	K94. Knowledge of how base curve, thickness, and vertex distance affect image size and patient comfort.
T40. Prescribe spectacles to improve patient vision.	K95. Knowledge of prescribing supplemental spectacles for contact lens wearers. K97. Knowledge of spectacle frame materials, types, and styles. K98. Knowledge of spectacle frame styles suitable for specific corrections and lens types. K99. Knowledge of care and limitations of specific lenses, tints, and coatings. K101. Knowledge of lens and prism corrections for binocular misalignment, latent hyperopia, or aniseikonia. K102. Knowledge of measurement and dispensing techniques for various types of multifocals.

3. Spectacles and Protective Eyewear (6%) – This area assesses the candidate’s knowledge of prescribing ophthalmic frames and lenses including protective eyewear, addressing eyewear-related complaints, and educating patients on use and care of eyewear.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T41. Adjust and repair spectacle frames to give patients secure, comfortable, pleasing, and optically correct fit.	K103. Knowledge of methods to adjust and repair spectacle frames to fit patients securely and comfortably.
T42. Inform patients about proper care of spectacles.	K99. Knowledge of care and limitations of specific lenses, tints, coatings, and frames.
T43. Investigate and address patient complaints with newly prescribed spectacles.	K93. Knowledge of advantages and disadvantages of particular lens types, designs, and materials. K94. Knowledge of how base curve, thickness, and vertex distance affect image size and patient comfort. K96. Knowledge of patient adaptation when alternating between contact lenses and spectacles. K97. Knowledge of spectacle frame materials, types, and styles. K101. Knowledge of lens and prism corrections for binocular misalignment, latent hyperopia, or aniseikonia.
T44. Prescribe and explain the need for protective eyewear.	K100. Knowledge of common needs for protective eyewear. K104. Knowledge of ANSI standards for ophthalmic products. K105. Knowledge of OSHA standards for safety eyewear. K106. Knowledge of manufacturers’ indicators for safety lenses and frames.

4. Contact Lenses (18%) – This area assesses the candidate’s knowledge of fitting and prescribing contact lenses, addressing contact lens-related complaints and complications, and educating patients on use and care of contact lenses.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T45. Evaluate patient preferences, needs, and goals when patients are considering or requesting contact lenses.	K107. Knowledge of patient suitability for contact lens wear. K108. Knowledge of environmental conditions that affect contact lens wear. K109. Knowledge of types, characteristics, and chemical qualities of various contact lenses. K110. Knowledge of advantages and disadvantages of various contact lenses. K111. Knowledge of contact lens wear schedules based on eye condition, lens type, and lens materials.
T46. Review patient history to evaluate problems with contact lenses; and conditions, allergies, or medications that might affect contact lens use.	K108. Knowledge of environmental conditions that affect contact lens wear. K112. Knowledge of remedies for common patient complaints about contact lenses. K113. Knowledge of causes of common patient complaints about contact lenses. K114. Knowledge of common medications, ocular, and systemic diseases that affect contact lens wear. K115. Knowledge of sensitivities to contact lens materials and solutions. K117. Knowledge of binocular vision dysfunction that can affect contact lens wear. K118. Knowledge of methods to assess patient subjective response to contact lens wear.
T47. Review examination records to identify patient past or current corrective prescriptions.	K119. Knowledge of methods to change contact lens parameters to improve fit and vision.

4. Contact Lenses (18%) – This area assesses the candidate’s knowledge of fitting and prescribing contact lenses, addressing contact lens-related complaints and complications, and educating patients on use and care of contact lenses.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T48. Examine patient with biomicroscope to check for current ocular health conditions that affect contact lens use.	K120. Knowledge of methods to use biomicroscopy to identify eye anomalies that affect contact lens wear. K121. Knowledge of methods to test the quantity and quality of tear production. K122. Knowledge of size and location of the palpebral fissure and its importance in fitting contact lenses.
T49. Determine if patient would benefit from a prosthetic or therapeutic lens.	K123. Knowledge of prosthetic or therapeutic contact lenses that improve the appearance or function of abnormal or damaged eyes.
T50. Measure patient corneas and the contribution to total astigmatism and total refraction.	K124. Knowledge of methods to measure ocular parameters relevant to prescribing contact lenses. K125. Knowledge of methods to take keratometry measurements for determining contact lens prescriptions. K126. Knowledge of methods to take keratometry measurements to evaluate total and corneal astigmatism. K127. Knowledge of corneal topography to determine patient suitability for contact lens wear or corneal refractive therapy. K128. Knowledge of methods to use refraction, keratometry, test measurements, and diagnostic lens fittings to determine lens choices.
T51. Verify lens parameters for rigid lenses with instruments.	K129. Knowledge of methods to measure rigid lens parameters.
T52. Use corneal topography to determine corneal health and quality of vision.	K121. Knowledge of methods to test the quantity and quality of tear production. K127. Knowledge of corneal topography to determine patient suitability for contact lens wear or corneal refractive therapy. K130. Knowledge of factors that indicate patient suitability for corneal refractive therapy or other treatment options. K131. Knowledge of methods to use corneal topography to diagnose eye conditions.

4. Contact Lenses (18%) – This area assesses the candidate’s knowledge of fitting and prescribing contact lenses, addressing contact lens-related complaints and complications, and educating patients on use and care of contact lenses.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T53. Determine the type of contact lens for patients (e.g., soft vs. RGP, spherical vs. toric) based on patient needs and requirements.	K110. Knowledge of advantages and disadvantages of various contact lenses. K111. Knowledge of contact lens wear schedules based on eye condition, lens type, and lens materials. K132. Knowledge of methods to fit and assess rigid lenses. K133. Knowledge of methods to fit and assess soft lenses. K134. Knowledge of methods to fit contact lenses after eye surgery. K135. Knowledge of contact lens replacement schedules based on lens type.
T54. Evaluate the contact lens modality for patients (e.g., daily wear, extended wear, flexible wear).	K110. Knowledge of advantages and disadvantages of various contact lenses. K111. Knowledge of contact lens wear schedules based on eye condition, lens type, and lens materials. K135. Knowledge of contact lens replacement schedules based on lens type.
T55. Calculate the parameters of the lenses to be prescribed from diagnostic data.	K124. Knowledge of methods to measure ocular parameters relevant to prescribing contact lenses. K125. Knowledge of methods to take keratometry measurements for determining contact lens prescriptions. K126. Knowledge of methods to take keratometry measurements to evaluate total and corneal astigmatism.
T56. Perform over-refraction with contact lenses in place.	K137. Knowledge of use of over-refraction to determine lens correction using trial lenses.
T57. Evaluate the fit and movement of contact lenses with a biomicroscope or Burton lamp.	K128. Knowledge of methods to use refractive, keratometry, test measurements, and diagnostic lens fittings to determine lens choices. K132. Knowledge of methods to fit and assess rigid lenses. K133. Knowledge of methods to fit and assess soft lenses.

4. Contact Lenses (18%) – This area assesses the candidate’s knowledge of fitting and prescribing contact lenses, addressing contact lens-related complaints and complications, and educating patients on use and care of contact lenses.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T58. Educate patient or caregiver in the handling, risks, and use of contact lenses.	K111. Knowledge of contact lens wear schedules based on eye condition, lens type, and lens materials. K135. Knowledge of contact lens replacement schedules based on lens type. K136. Knowledge of the use of contact lens care products recommended for patients based on eye condition and lens type. K138. Knowledge of methods to educate patients about the recommended use and care of contact lenses. K139. Knowledge of methods to prevent contact lens sequelae.
T59. Analyze and address patient complaints with prescribed contact lenses.	K112. Knowledge of remedies for common patient complaints about contact lenses. K113. Knowledge of causes of common patient complaints about contact lenses. K116. Knowledge of methods to minimize or prevent sensitivities to contact lens materials and solutions. K118. Knowledge of methods to assess patient subjective response to contact lens wear. K119. Knowledge of methods to change contact lens parameters to improve fit and vision. K140. Knowledge of treatments for contact lens-related eye problems. K141. Knowledge of methods to troubleshoot contact lens problems. K142. Knowledge of methods to evaluate patient physiological response to contact lens wear.

5. Management of Eye Disorders and Referrals (12%) – This area assesses the candidate’s knowledge of managing glaucoma and other eye disorders, prescribing pharmaceutical and other therapies, referrals, and co-management with other health care providers.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T61. Prescribe oral or topical medications to treat ocular diseases, disorders, and trauma.	K143. Knowledge of methods to write prescriptions for therapeutic drugs. K144. Knowledge of indications and contraindications of therapeutic drugs. K145. Knowledge of dosages, administration schedules, and durations of use of therapeutic drugs. K146. Knowledge of methods for administering therapeutic drugs. K147. Knowledge of side effects and options for managing the side effects of therapeutic drugs. K148. Knowledge of interaction of therapeutic drugs and UV exposure. K149. Knowledge of possible interactions between ocular and systemic medications. K150. Knowledge of adverse interactions of ocular and systemic medications.
T62. Determine dry eye treatment based on symptoms and clinical findings.	K151. Knowledge of the use of ocular lubricants. K152. Knowledge of punctal plugs to relieve eye dryness. K153. Knowledge of methods to insert punctal plugs. K154. Knowledge of preventive care and treatment options for eyelid and ocular surface diseases.
T63. Remove nonperforating foreign bodies from cornea, sclera, eyelid, or adnexa with instruments.	K155. Knowledge of instruments and procedures for removing non-perforating foreign bodies from the eye. K156. Knowledge of follow-up treatment after removal of non-perforating foreign bodies from the eye.
T64. Epilate eyelashes to treat trichiasis.	K157. Knowledge of instruments and procedures for epilating eyelashes to relieve trichiasis.

5. Management of Eye Disorders and Referrals (12%) – This area assesses the candidate’s knowledge of managing glaucoma and other eye disorders, prescribing pharmaceutical and other therapies, referrals, and co-management with other health care providers.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T65. Monitor glaucoma suspects and treat glaucoma patients.	K158. Knowledge of glaucoma classifications treatable by an optometrist. K159. Knowledge of methods for glaucoma management and co-management.
T66. Refer glaucoma patients to specialists.	K160. Knowledge of glaucoma patient conditions for which a referral is necessary. K161. Knowledge of procedures for stabilizing patients for emergency referral.
T67. Treat patients with disorders of the anterior or posterior segment.	K162. Knowledge of management of anterior segment disorders. K163. Knowledge of management of posterior segment disorders.
T68. Refer patients with ocular and suspected systemic conditions to other health care providers.	K164. Knowledge of patient conditions for which a referral is necessary. K165. Knowledge of eye or vision disorders and relevant specialists for referrals. K166. Knowledge of systemic disorders that require a referral to other medical professionals. K167. Knowledge of recurrent symptoms or signs that indicate or require a referral. K168. Knowledge of information required in referral or consultation letters. K169. Knowledge of methods to explain the risks, benefits, alternatives, and possible complications of eye surgery. K170. Knowledge of ocular and systemic diseases that affect eyesight, health, or life.
T69. Provide nutritional recommendations that may help prevent or slow progression of eye diseases.	K171. Knowledge of nutrition and nutritional supplements as they relate to ocular health.

5. Management of Eye Disorders and Referrals (12%) – This area assesses the candidate’s knowledge of managing glaucoma and other eye disorders, prescribing pharmaceutical and other therapies, referrals, and co-management with other health care providers.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T70. Manage patients with ocular and other medical emergencies.	K161. Knowledge of laws and regulations related to stabilizing a patient for emergency referral. K170. Knowledge of ocular and systemic diseases that affect eyesight, health, or life. K172. Knowledge of ocular symptoms that indicate a patient should be seen immediately. K173. Knowledge of methods to train office staff to identify the symptoms that require a patient to be seen immediately. K174. Knowledge of extended examination procedures for common ocular emergencies. K175. Knowledge of symptoms and responses that require immediate attention (e.g., vasovagal reaction). K176. Knowledge of symptoms that indicate an emergency that requires an immediate referral to another medical professional.
T71. Educate patients regarding eye conditions, including possible risks and benefits of treatment.	K178. Knowledge of etiology and prognosis of ocular conditions. K179. Knowledge of patient suitability for eye surgery. K180. Knowledge of the risks, benefits, alternatives, and possible complications of eye surgery.
T72. Manage patients to improve or enhance visual function.	K177. Knowledge of visual function conditions and relevant specialists for referrals. K181. Knowledge of availability of neuro-optometric rehabilitation methods for treating brain injury patients. K182. Knowledge of training methods to enhance visual functions.
T73. Co-manage patient treatment with other medical professionals.	K183. Knowledge of ocular surgical complications and remedies. K184. Knowledge of methods to co-manage treatment for a patient with developing or advanced ocular pathology. K185. Knowledge of pre- and post-operative optometric care for patients referred for surgery.

6. Laws and Regulations (20%) – This area assesses the candidate’s knowledge of laws and regulations related to optometric scope of practice, licensure requirements, advertising, professional conduct, staff supervision, and mandated reporting.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T74. Obtain consent to provide services from patient, parent, or guardian.	K186. Knowledge of laws and regulations related to parent or guardian consent for treating minors.
T75. Report suspected child or elder abuse to authorities.	K187. Knowledge of the methods to report suspected child or elder abuse to authorities. K188. Knowledge of laws and regulations related to reporting suspected or known abuse of patients.
T76. Conform to current optometric scope of practice.	K189. Knowledge of certifications required for performing various optometric services. K190. Knowledge of laws and regulations related to optometric scope of practice. K191. Knowledge of laws and regulations related to testing patients for diabetes. K192. Knowledge of laws and regulations related to testing patients for ocular allergies. K193. Knowledge of laws and regulations related to administering flu, shingles, and pneumonia immunizations.
T77. Maintain patient records in accordance with laws and regulations.	K194. Knowledge of laws and regulations related to retention of patient records. K195. Knowledge of laws and regulations related to providing receipts to patients.
T78. Release patient records in accordance with laws and regulations.	K196. Knowledge of laws and regulations related to release of patient records. K197. Knowledge of laws and regulations related to providing summaries of patient health records.
T79. Provide discounts for services in accordance with laws and regulations.	K198. Knowledge of laws and regulations related to solicitation for payment from patients. K199. Knowledge of laws and regulations related to providing discounts for services.

6. Laws and Regulations (20%) – This area assesses the candidate’s knowledge of laws and regulations related to optometric scope of practice, licensure requirements, advertising, professional conduct, staff supervision, and mandated reporting.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T80. Order laboratory tests or imagery in accordance with laws and regulations.	K200. Knowledge of laws and regulations related to ordering laboratory tests or imagery.
T81. Prescribe contact and spectacle lenses in accordance with laws and regulations.	K201. Knowledge of laws and regulations related to information required on a prescription. K202. Knowledge of laws and regulations related to providing copies of prescriptions to patients. K203. Knowledge of laws and regulations related to consumer notice posting related to consumer rights.
T82. Prescribe spectacle lenses in accordance with laws and regulations.	K204. Knowledge of laws and regulations related to shatter-resistant materials in a spectacle lens prescription. K205. Knowledge of laws and regulations related to lens specifications required for a spectacle prescription.
T83. Prescribe contact lenses in accordance with laws and regulations.	K206. Knowledge of laws and regulations related to the release of a contact lens prescriptions. K207. Knowledge of laws and regulations related to confirmation of contact lens prescriptions.
T84. Advertise optometric services offered in accordance with laws and regulations.	K208. Knowledge of laws and regulations related to optometric advertising, misrepresentation, and false claims. K209. Knowledge of laws and regulations regarding advertising free and discounted services. K210. Knowledge of laws and regulations related to use of optometric title. K211. Knowledge of laws and regulations regarding optometric certification designations.
T85. Remove foreign bodies from the eye in accordance with laws and regulations.	K212. Knowledge of laws and regulations regarding removal of foreign bodies from the eye.

6. Laws and Regulations (20%) – This area assesses the candidate’s knowledge of laws and regulations related to optometric scope of practice, licensure requirements, advertising, professional conduct, staff supervision, and mandated reporting.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T86. Refer patients to other health care providers without personal benefit in accordance with laws and regulations.	K213. Knowledge of laws and regulations regarding solicitation of referrals that provide beneficial interest to family or self. K214. Knowledge of laws and regulations regarding referral rebates.
T87. Treat and manage glaucoma patients in accordance with laws and regulations.	K215. Knowledge of laws and regulations related to the treatment and management of glaucoma.
T88. Manage optometry office, staff, and assistants in accordance with laws and regulations.	K216. Knowledge of laws and regulations related to the duties and supervision of optometric assistants and to the duties of registered dispensing opticians. K217. Knowledge of laws and regulations related to infection control guidelines.
T89. Display optometric license in accordance with laws and regulations.	K218. Knowledge of laws and regulations related to use and display of optometric license.
T90. Prescribe therapeutic pharmaceutical agents in accordance with laws and regulations.	K219. Knowledge of laws and regulations related to prescribing therapeutic drugs. K220. Knowledge of laws and regulations related to administering therapeutic drugs and devices. K221. Knowledge of laws and regulations regarding excessive prescribing.
T91. Use professional conduct with patients and practice in accordance with laws and regulations.	K222. Knowledge of laws and regulations related to unprofessional conduct. K223. Knowledge of laws and regulations regarding sexual contact, conduct, and relations with patients and staff.
T92. Treat and manage pediatric patients in accordance with laws and regulations.	K224. Knowledge of laws and regulations related to the treatment and management of ocular disorders in pediatric patients.

CHAPTER 6 | CALIFORNIA OPTOMETRY LAWS AND REGULATIONS EXAMINATION OUTLINE

CALIFORNIA OPTOMETRY LAWS AND REGULATIONS EXAMINATION

At this time, California licensure as an optometrist is granted to applicants who have obtained their Doctor of Optometry degree, passed the National Board of Examiners in Optometry examination, and passed the California Optometry Laws and Regulations Examination.

The SMEs who participated in the October 2018 workshop were asked to develop a preliminary examination outline for the California Optometry Laws and Regulations Examination by identifying the tasks and knowledge that they believed were California-specific. The SMEs determined that all task and knowledge statements within the Laws and Regulations content area should remain in the examination outline for the California Optometry Laws and Regulations Examination.

CONTENT AREAS AND WEIGHTS

In February 2019, OPES facilitated a workshop with eight SMEs. Before the workshop, OPES organized the task and knowledge statements from the preliminary California Optometry Laws and Regulations Examination Outline into a proposed examination outline with five content areas. The SMEs reviewed the proposed examination outline and determined that two additional knowledge statements (K37 and K38) were needed to address multiple office locations and renting or leasing commercial office space. The SMEs determined the final content area names, descriptions, and content area weights. After the examination outline was finalized, OPES renumbered the tasks and knowledge statements. The final examination outline for the California Optometry Laws and Regulations Examination consists of five content areas and is presented in Table 17. Tables 18 and 19 provide a conversion chart indicating the new task and knowledge numbers in the California Optometry Laws and Regulations Examination Outline and the original task and knowledge numbers in the California Optometrist Examination Outline.

TABLE 17 – EXAMINATION OUTLINE FOR THE CALIFORNIA OPTOMETRY LAWS AND REGULATIONS
EXAMINATION

1. Scope of Practice (50%) – This area assesses the candidate’s knowledge of laws and regulations related to the optometric scope of practice, including ordering laboratory tests and treating and managing pediatric patients.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T1. Conform to current optometric scope of practice.	K1. Knowledge of certifications required for performing various optometric services. K2. Knowledge of laws and regulations related to optometric scope of practice. K3. Knowledge of laws and regulations related to testing patients for diabetes. K4. Knowledge of laws and regulations related to testing patients for ocular allergies. K5. Knowledge of laws and regulations related to administering flu, shingles, and pneumonia immunizations.
T2. Order laboratory tests or imagery in accordance with laws and regulations.	K6. Knowledge of laws and regulations related to ordering laboratory tests or imagery.
T3. Remove foreign bodies from the eye in accordance with laws and regulations.	K7. Knowledge of laws and regulations regarding removal of foreign bodies from the eye.
T4. Treat and manage glaucoma patients in accordance with laws and regulations.	K8. Knowledge of laws and regulations related to the treatment and management of glaucoma.
T5. Treat and manage pediatric patients in accordance with laws and regulations.	K9. Knowledge of laws and regulations related to the treatment and management of ocular disorders in pediatric patients.

2. Recordkeeping and Reporting (14%) – This area assesses the candidate’s knowledge of California laws and regulations related to informed consent and to documentation, maintenance, and release of patient records.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T6. Obtain consent to provide services from patient, parent, or guardian.	K10. Knowledge of laws and regulations related to parent or guardian consent for treating minors.
T7. Report suspected child or elder abuse to authorities.	K11. Knowledge of the methods to report suspected child or elder abuse to authorities. K12. Knowledge of laws and regulations related to reporting suspected or known abuse of patients.
T8. Maintain patient records in accordance with laws and regulations.	K13. Knowledge of laws and regulations related to retention of patient records. K14. Knowledge of laws and regulations related to providing receipts to patients.
T9. Release patient records in accordance with laws and regulations.	K15. Knowledge of laws and regulations related to release of patient records. K16. Knowledge of laws and regulations related to providing summaries of patient health records.

3. Advertising and Referrals (8%) – This content area assesses the candidate’s knowledge of California laws and regulations related to advertising and providing discounts for optometric services and to referring patients without personal benefit.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T10. Provide discounts for services in accordance with laws and regulations	K17. Knowledge of laws and regulations related to solicitation for payment from patients. K18. Knowledge of laws and regulations related to providing discounts for services.
T11. Advertise optometric services offered in accordance with laws and regulations.	K19. Knowledge of laws and regulations related to optometric advertising, misrepresentation, and false claims. K20. Knowledge of laws and regulations regarding advertising free and discounted services. K21. Knowledge of laws and regulations related to use of optometric title. K22. Knowledge of laws and regulations regarding optometric certification designations.
T12. Refer patients to other health care providers without personal benefit in accordance with laws and regulations.	K23. Knowledge of laws and regulations regarding solicitation of referrals that provide beneficial interest to family or self. K24. Knowledge of laws and regulations regarding referral rebates.

4. Prescribing (16%) - This content area assesses the candidate's knowledge of California laws and regulations related to prescribing contact and spectacle lenses and to prescribing therapeutic pharmaceutical agents.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T13. Prescribe contact and spectacle lenses in accordance with laws and regulations.	K25. Knowledge of laws and regulations related to information required on a prescription. K26. Knowledge of laws and regulations related to providing copies of prescriptions to patients. K27. Knowledge of laws and regulations related to consumer notice posting related to consumer rights.
T14. Prescribe spectacle lenses in accordance with laws and regulations.	K28. Knowledge of laws and regulations related to shatter-resistant materials in a spectacle lens prescription. K29. Knowledge of laws and regulations related to lens specifications required for a spectacle prescription.
T15. Prescribe contact lenses in accordance with laws and regulations.	K30. Knowledge of laws and regulations related to the release of contact lens prescriptions. K31. Knowledge of laws and regulations related to confirmation of contact lens prescriptions.
T16. Prescribe therapeutic pharmaceutical agents in accordance with laws and regulations.	K32. Knowledge of laws and regulations related to prescribing therapeutic drugs. K33. Knowledge of laws and regulations related to administering therapeutic drugs and devices. K34. Knowledge of laws and regulations regarding excessive prescribing.

5. Office Management and Professional Conduct (12%) - This content area assesses the candidate's knowledge of California laws and regulations related to managing optometry offices, staff, and assistants and to maintaining professional conduct.

<i>Task Statement</i>	<i>Associated Knowledge Statements</i>
T17. Manage optometry office, staff, and assistants in accordance with laws and regulations.	K35. Knowledge of laws and regulations related to the duties and supervision of optometric assistants and to the duties of registered dispensing opticians. K36. Knowledge of laws and regulations related to infection control guidelines. K37. Knowledge of laws and regulations related to multiple office locations. K38. Knowledge of laws and regulations related to renting or leasing space from a commercial establishment.
T18. Display optometric license in accordance with laws and regulations.	K39. Knowledge of laws and regulations related to use and display of optometric license.
T19. Maintain professional conduct with patients and practice in accordance with laws and regulations.	K40. Knowledge of laws and regulations related to unprofessional conduct. K41. Knowledge of laws and regulations regarding sexual contact, conduct, and relations with patients and staff.

TABLE 18 – RENUMBERING OF TASK STATEMENTS

Original Task Number in California Optometrist Examination Outline	New Task Number in California Optometry Laws and Regulations Examination Outline
76	1
80	2
85	3
87	4
92*	5*
74	6
75	7
77	8
78	9
79	10
84	11
86	12
81	13
82	14
83	15
90	16
88	17
89	18
91	19

*NOTE: Shaded task statement was added to specifically address pediatric optometry.

TABLE 19 – RENUMBERING OF KNOWLEDGE STATEMENTS

Original Knowledge Statement Number in California Optometrist Examination Outline	New Knowledge Statement Number in California Optometry Laws and Regulations Examination Outline
189	1
190	2
191	3
192	4
193	5
200	6
212	7
215	8
224*	9*
186	10
187	11
188	12
194	13
195	14
196	15
197	16
198	17
199	18
208	19
209	20
210	21
211	22
213	23
214	24
201	25
202	26
203	27
204	28
205	29
206	30

*NOTE: Shaded knowledge statement was added to specifically address pediatric optometry.

Original Knowledge Statement Number in California Optometrist Examination Outline	New Knowledge Statement Number in California Laws and Regulations Examination Outline
207	31
219	32
220	33
221	34
216	35
217	36
--	37*
--	38*
218	39
222	40
223	41

*NOTE: Shaded knowledge statements were added to address multiple office locations and renting or leasing commercial office space.

CHAPTER 7 | CONCLUSION

The OA of the optometrist profession described in this report provides a comprehensive description of current practice in California. The procedures employed to perform the OA were based upon a content validation strategy to ensure that the results accurately represent optometry practice. Results of this OA can be used to ensure that national examinations under consideration for acceptance or already accepted by the Board of Optometry measure content critical to optometry practice in California.

By adopting the optometry examination outline contained in this report, the Board ensures that its California Optometry Laws and Regulations Examination program reflects current practice.

This report provides all documentation necessary to verify that the analysis has been completed in accordance with legal, professional, and technical standards.

APPENDIX A | RESPONDENTS BY REGION

LOS ANGELES COUNTY AND VICINITY

County of Practice	Frequency
Los Angeles	139
Orange	66
TOTAL	205

SAN FRANCISCO BAY AREA

County of Practice	Frequency
Alameda	25
Contra Costa	13
Marin	4
San Francisco	25
San Mateo	10
Santa Clara	34
Santa Cruz	6
Solano	6
TOTAL	123

SAN DIEGO COUNTY AND VICINITY

County of Practice	Frequency
Imperial	3
San Diego	48
TOTAL	51

RIVERSIDE AND VICINITY

County of Practice	Frequency
Riverside	24
San Bernardino	15
TOTAL	39

SAN JOAQUIN VALLEY

County of Practice	Frequency
Fresno	17
Kern	6
Kings	3
Merced	1
San Joaquin	6
Stanislaus	11
Tulare	3
TOTAL	47

SACRAMENTO VALLEY

County of Practice	Frequency
Butte	2
Glenn	1
Lake	1
Sacramento	22
Sutter	2
Yolo	3
TOTAL	31

SIERRA MOUNTAIN VALLEY

County of Practice	Frequency
Amador	2
Calaveras	1
El Dorado	3
Inyo	1
Nevada	2
Placer	11
Tuolumne	1
TOTAL	21

SOUTH COAST AND CENTRAL COAST

County of Practice	Frequency
Monterey	7
San Luis Obispo	5
Santa Barbara	4
Ventura	12
TOTAL	28

SHASTA-CASCADE

County of Practice	Frequency
Shasta	4
Tehama	2
TOTAL	6

NORTH COAST

County of Practice	Frequency
Humboldt	2
Mendocino	1
Sonoma	8
TOTAL	11

**APPENDIX B | CRITICALITY INDICES FOR ALL TASKS
IN DESCENDING ORDER**

**Content Area 1
Patient Examination**

Task Number	Task Statement	Mean Frequency	Mean Importance	Task Criticality Index
1	Identify patient chief complaint, in addition to vision and ocular health history.	4.8452	4.7718	23.26
7	Document patient visual acuities.	4.8739	4.7140	23.07
20	Perform biomicroscopy to aid in assessing patient ocular health.	4.8046	4.6797	22.68
19	Measure patient intraocular pressures to screen for pressure-related conditions.	4.8277	4.6128	22.45
15	Perform subjective refraction to refine refractive status at distance and near.	4.8399	4.5819	22.43
8	Test patient pupillary light responses and extraocular movement to determine neurological integrity.	4.6815	4.4448	21.13
24	Perform direct or binocular indirect ophthalmoscopy to assess health of posterior segment.	4.5169	4.5036	20.73
4	Obtain patient information regarding current medication and sensitivity to medication.	4.6554	4.3499	20.63
2	Obtain patient information regarding personal and family medical history.	4.7229	4.2966	20.55
14	Perform objective measurement to assess refractive status.	4.5631	4.1137	19.25
9	Verify patient existing corrective lens prescription for comparison.	4.5275	3.9893	18.53
10	Test patient visual field for deficits.	4.2984	4.0710	18.10
23	Use diagnostic pharmaceutical agents (DPAs) to facilitate refractive and ocular health assessment.	4.1439	4.1243	17.77
5	Observe patient for alertness and orientation to person, place, and time.	4.4316	3.7798	17.32
6	Observe patient to identify facial, head, and postural anomalies.	4.2291	3.6998	16.31
13	Perform diagnostic tests to assess patient binocular alignment and ocular movement.	4.1510	3.6851	15.95
3	Obtain patient information regarding social history (e.g., smoking, drugs, and alcohol).	4.1563	3.4956	15.30
26	Perform and interpret threshold visual field tests as indicated by history or prior test results.	3.4494	3.7362	14.26
12	Perform keratometry to assess the cornea.	3.8274	3.3594	14.12
27	Use and interpret specialty tests (e.g., pachymetry, optic nerve head analysis) for treatment or referral.	3.1776	3.5544	13.49

Task Number	Task Statement	Mean Frequency	Mean Importance	Task Criticality Index
18	Perform accommodative tests to assess ocular focus ability.	3.6306	3.3659	13.38
16	Perform binocular tests (e.g., heterophorias, ductions) to determine degree of ocular coordination.	3.6536	3.3351	13.15
21	Evert patient eyelids to identify diseases, foreign bodies, and allergies.	3.4902	3.4715	12.88
11	Measure patient interpupillary distances.	3.2629	2.9662	11.60
25	Perform color deficiency tests when indicated by patient risk factors.	3.4014	3.1226	11.52
30	Recognize patient random serum glucose levels.	2.6025	2.8402	9.83
28	Use Amsler grid to reveal central field irregularities.	2.7886	3.2046	9.81
29	Take and evaluate patient blood pressure.	2.2238	2.6905	7.64
17	Conduct examinations to assess vision-related learning disorders.	2.0089	2.3084	6.54
22	Perform gonioscopy to determine the integrity of angle structures.	1.8792	2.7701	6.23

**Content Area 2
Diagnosis and Treatment Plans**

Task Number	Task Statement	Mean Frequency	Mean Importance	Task Criticality Index
32	Make differential diagnoses based on symptoms, history, physical examination, and test results.	4.6909	4.5925	21.80
35	Develop and communicate a treatment plan to address visual abnormalities and eye diseases and disorders.	4.5240	4.4804	20.69
31	Explain refractive treatment options to patients.	4.6501	4.2522	20.20
36	Educate patients on maintaining visual health and integrity.	4.5488	4.3410	20.10
33	Confirm diagnoses using diagnostic findings, consultative reports, and references.	4.3535	4.3623	19.58
34	Identify patients with systemic disorders that may affect the eyes or visual system.	4.2682	4.3943	19.18
37	Refer patients to other specialists as indicated by history or examination findings.	4.1014	4.5320	18.88

Content Area 3
Spectacles and Protective Eyewear

Task Number	Task Statement	Mean Frequency	Mean Importance	Task Criticality Index
40	Prescribe spectacles to improve patient vision.	4.7780	4.5187	21.88
38	Educate patients about frame and lens options to assist them in making an informed decision.	3.8011	3.5915	14.85
44	Prescribe and explain the need for protective eyewear.	3.5826	3.8214	14.39
43	Investigate and address patient complaints with newly prescribed spectacles.	3.4725	3.8259	13.91
42	Inform patients about proper care of spectacles.	2.6690	2.8339	9.22
41	Adjust and repair spectacle frames to give patients secure, comfortable, pleasing, and optically correct fit.	2.3481	2.9447	9.14
39	Prescribe base curves and lens thicknesses that improve visual function, appearance, and comfort.	2.6110	2.8384	8.88

**Content Area 4
Contact Lenses**

Task Number	Task Statement	Mean Frequency	Mean Importance	Task Criticality Index
48	Examine patient with biomicroscope to check for current ocular health conditions that affect contact lens use.	4.5311	4.3601	20.43
57	Evaluate the fit and movement of contact lenses with a biomicroscope or Burton lamp.	4.3541	4.0782	18.80
45	Evaluate patient preferences, needs, and goals when patients are considering or requesting contact lenses.	4.3167	4.0608	18.49
47	Review examination records to identify patient past or current corrective prescriptions.	4.3659	3.9162	17.85
46	Review patient history to evaluate problems with contact lenses; and conditions, allergies, or medications that might affect contact lens use.	4.2096	4.0250	17.80
54	Evaluate the contact lens modality for patients (e.g., daily wear, extended wear, flexible wear).	4.2758	3.9075	17.70
58	Educate patient or caregiver in the handling, risks, and use of contact lenses.	4.0497	4.0943	17.64
59	Analyze and address patient complaints with prescribed contact lenses.	4.1208	4.0622	17.60
53	Determine the type of contact lens for a patient (e.g., soft vs. RGP, spherical vs. toric) based on patient needs and requirements.	4.1723	3.9147	17.54
60*	Monitor and evaluate patient physiological response to contact lens wear.	4.0391	3.9411	16.93
55	Calculate the parameters of the lenses to be prescribed from diagnostic data.	3.8559	3.7482	16.03
56	Perform over-refraction with contact lenses in place.	3.9146	3.6270	15.30
50	Measure patient corneas and the contribution to total astigmatism and total refraction.	3.7567	3.4618	14.46
52	Use corneal topography to determine corneal health and quality of vision.	2.2753	2.6375	8.52
51	Verify lens parameters for rigid lenses with instruments.	2.1403	2.7191	7.76
49	Determine if patient would benefit from a prosthetic or therapeutic lens.	2.1350	2.7989	7.57

*NOTE: Shaded task statement was deleted because it was considered redundant with T54, "Evaluate the contact lens modality for patients (e.g., daily wear, extended wear, flexible wear)."

Content Area 5
Management of Eye Disorders and Referrals

Task Number	Task Statement	Mean Frequency	Mean Importance	Task Criticality Index
71	Educate patients regarding eye conditions, including possible risks and benefits of treatment.	4.1208	4.2096	17.86
62	Determine dry eye treatment based on symptoms and clinical findings.	4.0284	4.0604	16.83
68	Refer patients with ocular and suspected systemic conditions to other health care providers.	3.4778	4.3339	15.44
61	Prescribe oral or topical medications to treat ocular diseases, disorders, and trauma.	3.3766	4.2416	14.91
66	Refer glaucoma patients to specialists.	3.3446	4.3020	14.82
72	Manage patients to improve or enhance visual function.	3.6092	3.6998	14.47
67	Treat patients with disorders of the anterior or posterior segment.	3.2918	4.1283	14.41
69	Provide nutritional recommendations that may help prevent or slow progression of eye diseases.	3.3730	3.7123	13.42
65	Monitor glaucoma suspects and treat glaucoma patients.	2.7798	3.6970	12.54
73	Co-manage patient treatment with other medical professionals.	3.0568	3.6809	12.44
70	Manage patients with ocular and other medical emergencies.	2.6270	4.0533	11.49
63	Remove nonperforating foreign bodies from cornea, sclera, eyelid, or adnexa with instruments.	2.4192	3.9787	10.37
64	Epilate eyelashes to treat trichiasis.	2.3712	3.4085	8.73

**Content Area 6
Laws and Regulations**

Task Number	Task Statement	Mean Frequency	Mean Importance	Task Criticality Index
91	Use professional conduct with patients and practice in accordance with laws and regulations.	4.8224	4.6128	22.40
77	Maintain patient records in accordance with laws and regulations.	4.7726	4.5027	21.74
82	Prescribe spectacle lenses in accordance with laws and regulations.	4.7918	4.4618	21.62
76	Conform to current optometric scope of practice.	4.6821	4.4778	21.31
81	Prescribe contact and spectacle lenses in accordance with laws and regulations.	4.6661	4.3932	21.00
83	Prescribe contact lenses in accordance with laws and regulations.	4.4956	4.3357	20.26
89	Display optometric license in accordance with laws and regulations.	4.5453	3.9361	18.68
90	Prescribe therapeutic pharmaceutical agents in accordance with laws and regulations.	4.0870	4.4466	18.51
78	Release patient records in accordance with laws and regulations.	3.9324	4.2309	17.27
86	Refer patients to other health care providers without personal benefit in accordance with laws and regulations.	3.8277	4.2824	16.81
74	Obtain consent to provide services from patient, parent, or guardian.	3.7567	3.9128	15.98
88	Manage optometry office, staff, and assistants in accordance with laws and regulations.	3.1581	3.3579	13.83
85	Remove foreign bodies from the eye in accordance with laws and regulations.	2.7691	4.1083	12.17
87	Treat and manage glaucoma patients in accordance with laws and regulations.	2.5364	3.5063	11.50
79	Provide discounts for services in accordance with laws and regulations.	2.3672	2.6065	8.57
84	Advertise optometric services offered in accordance with laws and regulations.	2.0747	2.6842	8.43
80	Order laboratory tests or imagery in accordance with laws and regulations.	1.8845	2.9250	7.66
75	Report suspected child or elder abuse to authorities.	1.0533	3.8843	4.53

**APPENDIX C | KNOWLEDGE IMPORTANCE RATINGS
IN DESCENDING ORDER**

**Content Area 1
Patient Examinations**

Item Number	Knowledge Statement	Mean Importance
24	Knowledge of procedures to perform subjective refraction at both distance and near.	4.6059
55	Knowledge of methods to perform direct and binocular indirect ophthalmoscopy to detect posterior segment anomalies.	4.5945
47	Knowledge of techniques to perform bio microscopy to detect anomalies.	4.5912
59	Knowledge of diabetes and its effects on systemic and ocular health.	4.5600
46	Knowledge of common anomalies of the anterior segment and implications for vision and health.	4.5346
23	Knowledge of methods and procedures to determine prescription for corrective lenses.	4.5294
2	Knowledge of methods to elicit chief complaint, symptoms, and ocular, medical, and family history.	4.5115
45	Knowledge of eye anatomy and the normal range of variation.	4.5094
44	Knowledge of Goldmann and other tonometry methods.	4.5074
54	Knowledge of ocular manifestations of systemic diseases.	4.5032
60	Knowledge of ocular findings that may indicate the presence of systemic diseases.	4.4968
57	Knowledge of common anomalies of the posterior segment, clinical signs, and implications for vision and health.	4.4758
50	Knowledge of ocular pathologies and the extent to which those effects are remediable.	4.4549
1	Knowledge of the elements needed to complete a comprehensive ocular health history (e.g., prior surgeries).	4.4280
52	Knowledge of indications and contraindications of mydriatics and cycloplegics.	4.3920
58	Knowledge of hypertension and its effects on systemic and ocular health.	4.3824
7	Knowledge of patient medications that may induce eye or other disorders.	4.3312
11	Knowledge of methods to determine visual acuity of various patient populations.	4.3264
10	Knowledge of neurological conditions related to vision.	4.2803
25	Knowledge of methods to use Jackson cross cylinders to refine axis and power measurements.	4.2773
14	Knowledge of methods to test for pupillary anomalies.	4.2552
41	Knowledge of topical anesthetics, dyes, or combinations and their applications.	4.2516

51	Knowledge of procedures to evert patient eyelids and recognize diseases.	4.2327
53	Knowledge of methods to manage adverse effects of mydriatics and cycloplegics.	4.2306
16	Knowledge of methods to determine parameters of existing spectacles or contact lenses.	4.2197
42	Knowledge of procedures of instilling dyes, anesthetics, or combinations.	4.2068
15	Knowledge of pupillary anomalies and their underlying causes.	4.2021
17	Knowledge of methods to perform visual field tests.	4.2013
9	Knowledge of common facial anomalies (e.g., carcinoma, ptosis) and health implications.	4.1482
62	Knowledge of methods to measure and interpret threshold visual field.	4.1053
43	Knowledge of methods to remedy adverse effects of instilling dyes, anesthetics, or combinations.	4.0734
21	Knowledge of methods to perform and interpret tests for defects in binocular alignment and eye movement (e.g., cover tests).	4.0630
4	Knowledge of methods to elicit history of past injuries (e.g., head trauma).	4.0585
3	Knowledge of congenital and developmental syndromes and the effects on vision.	3.9729
12	Knowledge of pinhole acuity testing and interpretation.	3.9685
35	Knowledge of methods to use prisms to determine patient binocular status.	3.9517
20	Knowledge of symptoms and clinical signs of binocular dysfunction.	3.9392
34	Knowledge of binocular tests using a phoropter.	3.9224
49	Knowledge of adverse reactions and complications of UV and other radiation.	3.9195
22	Knowledge of methods to perform retinoscopy.	3.8996
19	Knowledge of methods to interpret keratometry results.	3.8882
69	Knowledge of conditions that require evaluation of patient blood pressure.	3.8721
63	Knowledge of methods used to localize the neural lesion causing a particular visual defect.	3.8400
67	Knowledge of Amsler grid test procedures and interpretation.	3.8134
8	Knowledge of behavioral signs indicative of patient impairments.	3.7845
28	Knowledge of relationship between accommodation and convergence.	3.7815
13	Knowledge of procedures to perform cranial-nerve assessments to determine patient neurological status.	3.7238
31	Knowledge of methods to differentiate accommodative and binocular dysfunction.	3.7185

61	Knowledge of color vision testing materials, procedures, and interpretation.	3.6870
27	Knowledge of methods to refract with a trial frame and prescribe lenses.	3.6792
40	Knowledge of methods to measure accommodative status.	3.6779
6	Knowledge of methods to elicit patient occupational and recreational activities.	3.6736
29	Knowledge of methods to perform tests for detecting eye suppression.	3.6505
30	Knowledge of methods to determine patient near points of convergence and accommodation.	3.6316
32	Knowledge of methods to perform and interpret tests for stereopsis.	3.6226
48	Knowledge of methods and procedures for performing gonioscopy to evaluate angle structures and the fundus.	3.6017
68	Knowledge of methods to take patient blood pressure with standard measuring equipment.	3.5305
56	Knowledge of indications of binocular indirect ophthalmoscopy with scleral depression.	3.5137
5	Knowledge of methods to elicit patient use of smoking, drugs, and alcohol.	3.4728
64	Knowledge of etiology of low vision.	3.4076
36	Knowledge of visual system developmental stages.	3.3824
18	Knowledge of methods to measure patient interpupillary distance.	3.3606
37	Knowledge of motor and visual developmental milestones in children.	3.3256
65	Knowledge of methods to identify the visual conditions of low-vision patients.	3.2080
26	Knowledge of methods to modify refractive examinations for low-vision patients.	3.1723
38	Knowledge of examination procedures needed to identify visual processing disorders.	3.0756
39	Knowledge of symptoms of learning-related disorders.	3.0484
66	Knowledge of psychosocial aspects of low vision.	3.0000
33	Knowledge of methods to determine patient fixation disparity.	2.9497

Content Area 2
Diagnosis and Treatment Plans

Item Number	Knowledge Statement	Mean Importance
72	Knowledge of testing procedures to confirm the presence of ocular and visual disorders.	4.4693
73	Knowledge of common causes and sequelae of eye disorders.	4.4189
74	Knowledge of methods to recognize systemic diseases that produce similar ocular presentations.	4.3833
81	Knowledge of methods to identify ocular manifestations of systemic diseases.	4.3797
76	Knowledge of methods to perform differential diagnostic procedures.	4.3678
75	Knowledge of ocular pathologies and ocular immunological responses.	4.3596
71	Knowledge of methods to eliminate symptoms of discomfort or diplopia.	4.3385
70	Knowledge of methods to explain refractive treatment options.	4.3341
85	Knowledge of the risks, benefits, and prognosis of treatments and alternatives for common eye diseases and disorders.	4.3142
80	Knowledge of the effects of acute, chronic, and recurrent systemic disorders on the eyes and vision.	4.2813
84	Knowledge of treatments and alternatives for common eye diseases and disorders.	4.2627
79	Knowledge of common drugs and medications and their potential interactions and adverse reactions.	4.2039
77	Knowledge of situations that require an order or referral for imaging or laboratory tests.	4.0329
91	Knowledge of factors that indicate a patient is legally blind.	3.9075
92	Knowledge of factors that indicate a patient needs referral for neuro-optometric rehabilitation.	3.8673
93	Knowledge of advantages and disadvantages of particular lens types, designs, and materials.	3.8013
78	Knowledge of pertinent laboratory test findings and their implications for patient symptoms and clinical signs.	3.7544
90	Knowledge of occupational, recreational, and lifestyle factors that affect visual health and integrity.	3.5441
86	Knowledge of the relative cost of treatments and alternatives for common eye diseases and disorders.	3.4967
83	Knowledge of psychosomatic visual disorders and symptoms.	3.2571
82	Knowledge of using eccentric fixation as a treatment option.	3.0330
89	Knowledge of training methods to improve learning-related visual functions.	2.3996
88	Knowledge of methods for monitoring patient progress in vision training programs.	2.2863
87	Knowledge of methods for developing and modifying vision training programs.	2.2841

**Content Area 3
Spectacles and Protective Eyewear**

Item Number	Knowledge Statement	Mean Importance
101	Knowledge of lens and prism corrections for binocular misalignment, latent hyperopia, or aniseikonia.	3.8953
100	Knowledge of common needs for protective eyewear.	3.8747
96	Knowledge of patient adaptation when alternating between contact lenses and spectacles.	3.8616
95	Knowledge of prescribing supplemental spectacles for contact lens wearers.	3.8441
94	Knowledge of how base curve, thickness, and vertex distance affect image size and patient comfort.	3.5839
102	Knowledge of measurement and dispensing techniques for various types of multifocals.	3.5412
98	Knowledge of spectacle frame styles suitable for specific corrections and lens types.	3.5256
99	Knowledge of care and limitations of specific lenses, tints, and coatings.	3.4655
97	Knowledge of spectacle frame materials, types, and styles.	3.3862
103	Knowledge of methods to adjust and repair spectacle frames to fit patients securely and comfortably.	3.1969
104	Knowledge of ANSI standards for ophthalmic products.	3.1161
105	Knowledge of OSHA standards for safety eyewear.	3.1047
106	Knowledge of manufacturers' indicators for safety lenses and frames.	2.9955

**Content Area 4
Contact Lenses**

Item Number	Knowledge Statement	Mean Importance
120	Knowledge of methods to use biomicroscopy to identify eye anomalies that affect contact lens wear.	4.3379
140	Knowledge of treatments for contact lens-related eye problems.	4.3011
141	Knowledge of methods to troubleshoot contact lens problems.	4.2621
107	Knowledge of patient suitability for contact lens wear.	4.2059
112	Knowledge of remedies for common patient complaints about contact lenses.	4.1995
113	Knowledge of causes of common patient complaints about contact lenses.	4.1927
119	Knowledge of methods to change contact lens parameters to improve fit and vision.	4.1586
139	Knowledge of methods to prevent contact lens sequelae.	4.1406
133	Knowledge of methods to fit and assess soft lenses.	4.1359
138	Knowledge of methods to educate patients about the recommended use and care of contact lenses.	4.1149
128	Knowledge of methods to use refraction, keratometry, test measurements, and diagnostic lens fittings to determine lens choices.	4.0991
114	Knowledge of common medications, ocular, and systemic diseases that affect contact lens wear.	4.0917
111	Knowledge of contact lens wear schedules based on eye condition, lens type, and lens materials.	4.0849
108	Knowledge of environmental conditions that affect contact lens wear.	4.0783
110	Knowledge of advantages and disadvantages of various contact lenses.	4.0713
142	Knowledge of methods to evaluate patient physiological response to contact lens wear.	4.0485
137	Knowledge of use of over-refraction to determine lens correction using trial lenses.	4.0390
116	Knowledge of methods to minimize or prevent sensitivities to contact lens materials and solutions.	4.0299
115	Knowledge of sensitivities to contact lens materials and solutions.	4.0275
135	Knowledge of contact lens replacement schedules based on lens type.	4.0209
121	Knowledge of methods to test the quantity and quality of tear production.	4.0161
124	Knowledge of methods to measure ocular parameters relevant to prescribing contact lenses.	3.9516
118	Knowledge of methods to assess patient subjective response to contact lens wear.	3.9492

136	Knowledge of the use of contact lens care products recommended for patients based on eye condition and lens type.	3.9447
109	Knowledge of types, characteristics, and chemical qualities of various contact lenses.	3.8506
126	Knowledge of methods to take keratometry measurements to evaluate total and corneal astigmatism.	3.8060
125	Knowledge of methods to take keratometry measurements for determining contact lens prescriptions.	3.7972
130	Knowledge of factors that indicate patient suitability for corneal refractive therapy or other treatment options.	3.7517
117	Knowledge of binocular vision dysfunction that can affect contact lens wear.	3.7339
132	Knowledge of methods to fit and assess rigid lenses.	3.7182
134	Knowledge of methods to fit contact lenses after eye surgery.	3.6313
122	Knowledge of size and location of the palpebral fissure and its importance in fitting contact lenses.	3.5885
131	Knowledge of methods to use corneal topography to diagnose eye conditions.	3.5658
129	Knowledge of methods to measure rigid lens parameters.	3.5417
127	Knowledge of corneal topography to determine patient suitability for contact lens wear or corneal refractive therapy.	3.5230
123	Knowledge of prosthetic or therapeutic contact lenses that improve the appearance or function of abnormal or damaged eyes.	3.1296

Content Area 5
Management of Eye Disorders and Referrals

Item Number	Knowledge Statement	Mean Importance
172	Knowledge of ocular symptoms that indicate a patient should be seen immediately.	4.6502
164	Knowledge of patient conditions for which a referral is necessary.	4.6056
176	Knowledge of symptoms that indicate an emergency that requires an immediate referral to another medical professional.	4.5660
165	Knowledge of eye or vision disorders and relevant specialists for referrals.	4.4718
144	Knowledge of indications and contraindications of therapeutic drugs.	4.4695
175	Knowledge of symptoms and responses that require immediate attention (e.g., vasovagal reaction).	4.4682
167	Knowledge of recurrent symptoms or signs that indicate or require a referral.	4.4565
160	Knowledge of glaucoma patient conditions for which a referral is necessary.	4.4319
162	Knowledge of management of anterior segment disorders.	4.4306
143	Knowledge of methods to write prescriptions for therapeutic drugs.	4.4292
145	Knowledge of dosages, administration schedules, and durations of use of therapeutic drugs.	4.4235
166	Knowledge of systemic disorders that require a referral to other medical professionals.	4.4165
170	Knowledge of ocular and systemic diseases that affect eyesight, health, or life.	4.3967
147	Knowledge of side effects and options for managing the side effects of therapeutic drugs.	4.3756
178	Knowledge of etiology and prognosis of ocular conditions.	4.3451
146	Knowledge of methods for administering therapeutic drugs.	4.3333
174	Knowledge of extended examination procedures for common ocular emergencies.	4.3216
163	Knowledge of management of posterior segment disorders.	4.3028
168	Knowledge of information required in referral or consultation letters.	4.2998
150	Knowledge of adverse interactions of ocular and systemic medications.	4.2958
177	Knowledge of visual function conditions and relevant specialists for referrals.	4.2911
149	Knowledge of possible interactions between ocular and systemic medications.	4.2861
161	Knowledge of procedures for stabilizing patients for emergency referral.	4.2689

173	Knowledge of methods to train office staff to identify the symptoms that require a patient to be seen immediately.	4.2488
151	Knowledge of the use of ocular lubricants.	4.2388
154	Knowledge of preventive care and treatment options for eyelid and ocular surface diseases.	4.2241
156	Knowledge of follow-up treatment after removal of non-perforating foreign bodies from the eye.	4.1901
155	Knowledge of instruments and procedures for removing non-perforating foreign bodies from the eye.	4.1526
179	Knowledge of patient suitability for eye surgery.	4.1395
180	Knowledge of the risks, benefits, alternatives, and possible complications of eye surgery.	4.1244
169	Knowledge of methods to explain the risks, benefits, alternatives, and possible complications of eye surgery.	4.0965
148	Knowledge of interaction of therapeutic drugs and UV exposure.	3.9953
185	Knowledge of pre- and post-operative optometric care for patients referred for surgery.	3.9789
158	Knowledge of glaucoma classifications treatable by an optometrist.	3.9765
157	Knowledge of instruments and procedures for epilating eyelashes to relieve trichiasis.	3.9577
159	Knowledge of methods for glaucoma management and co-management.	3.9435
171	Knowledge of nutrition and nutritional supplements as they relate to ocular health.	3.9131
183	Knowledge of ocular surgical complications and remedies.	3.7962
184	Knowledge of methods to co-manage treatment for a patient with developing or advanced ocular pathology.	3.7929
152	Knowledge of punctal plugs to relieve eye dryness.	3.5765
153	Knowledge of methods to insert punctal plugs.	3.3341
182	Knowledge of training methods to enhance visual functions.	3.2230
181	Knowledge of availability of neuro-optometric rehabilitation methods for treating brain injury patients.	3.0915

**Content Area 6
Laws and Regulations**

Item Number	Knowledge Statement	Mean Importance
190	Knowledge of laws and regulations related to optometric scope of practice.	4.3108
219	Knowledge of laws and regulations related to prescribing therapeutic drugs.	4.2668
220	Knowledge of laws and regulations related to administering therapeutic drugs and devices.	4.2048
189	Knowledge of certifications required for performing various optometric services.	4.1639
201	Knowledge of laws and regulations related to information required on a prescription.	4.1594
202	Knowledge of laws and regulations related to providing copies of prescriptions to patients.	4.1542
223	Knowledge of laws and regulations regarding sexual contact, conduct, and relations with patients and staff.	4.1422
222	Knowledge of laws and regulations related to unprofessional conduct.	4.1301
212	Knowledge of laws and regulations regarding removal of foreign bodies from the eye.	4.1229
186	Knowledge of laws and regulations related to parent or guardian consent for treating minors.	4.0700
206	Knowledge of laws and regulations related to the release of a contact lens prescription.	4.0699
207	Knowledge of laws and regulations related to confirmation of contact lens prescriptions.	4.0413
205	Knowledge of laws and regulations related to lens specifications required for a spectacle prescription.	4.0387
204	Knowledge of laws and regulations related to shatter-resistant materials in a spectacle lens prescription.	4.0386
188	Knowledge of laws and regulations related to reporting suspected or known abuse of patients.	4.0265
187	Knowledge of the methods to report suspected child or elder abuse to authorities.	4.0096
196	Knowledge of laws and regulations related to release of patient records.	3.9952
215	Knowledge of laws and regulations related to the treatment and management of glaucoma.	3.9831
194	Knowledge of laws and regulations related to retention of patient records.	3.9735
197	Knowledge of laws and regulations related to providing summaries of patient health records.	3.9373

218	Knowledge of laws and regulations related to use and display of optometric license.	3.9253
217	Knowledge of laws and regulations related to infection control guidelines.	3.9157
221	Knowledge of laws and regulations regarding excessive prescribing.	3.9084
191	Knowledge of laws and regulations related to testing patients for diabetes.	3.8747
211	Knowledge of laws and regulations regarding optometric certification designations.	3.8530
192	Knowledge of laws and regulations related to testing patients for ocular allergies.	3.8430
210	Knowledge of laws and regulations related to use of optometric title.	3.8333
203	Knowledge of laws and regulations related to consumer notice posting related to consumer rights.	3.8043
195	Knowledge of laws and regulations related to providing receipts to patients.	3.7277
208	Knowledge of laws and regulations related to optometric advertising, misrepresentation, and false claims.	3.6659
213	Knowledge of laws and regulations regarding solicitation of referrals that provide beneficial interest to family or self.	3.6096
216	Knowledge of laws and regulations related to the duties and supervision of optometric assistants and to the duties of registered dispensing opticians.	3.5687
200	Knowledge of laws and regulations related to ordering laboratory tests or imagery.	3.4843
198	Knowledge of laws and regulations related to solicitation for payment from patients.	3.4807
209	Knowledge of laws and regulations regarding advertising free and discounted services.	3.4770
214	Knowledge of laws and regulations regarding referral rebates.	3.4092
199	Knowledge of laws and regulations related to providing discounts for services.	3.3614
193	Knowledge of laws and regulations related to administering flu, shingles, and pneumonia immunizations.	2.7904

APPENDIX D | QUESTIONNAIRE INVITATION EMAIL

Optometrist Occupational Analysis Survey

Dear Licensee:

Congratulations! You were selected to receive this Optometrist Occupational Analysis Questionnaire for the California State Board of Optometry.

Click the button below to start the survey.

Thank you for your participation!

Sincerely,

The California State Board of Optometry

[Begin Survey](#)

Please do not forward this email as its survey link is unique to you.

[Privacy](#) | [Unsubscribe](#)

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APPENDIX E | QUESTIONNAIRE

Cover Letter

Dear Licensed Optometrist:

Thank you for participating in this study of the optometric profession in California, a project of the California State Board of Optometry (Board).

The Board is conducting an occupational analysis of the optometric profession. The purpose of the occupational analysis is to identify the important tasks performed by optometrists in current practice and the knowledge required to perform those tasks. Results of the occupational analysis will be used to ensure that optometry licensing examinations reflect current practice in California.

Your participation in the occupational analysis is essential to this process. The Board requires responses from many licensees to achieve representation from different geographic regions of the state and different practice areas.

Please take the time to complete the questionnaire as it relates to your current job. Your responses will be kept confidential. They will not be tied to your license or personal information. Individual responses will be combined with responses of other optometrists and only group data will be analyzed.

For your convenience, you do not have to complete the questionnaire in a single session. You can resume where you stopped as long as you reopen the questionnaire from the same computer and use the same web browser. Before you exit, complete the page that you are on. The program will save responses only on completed pages. The web link is available 24 hours a day 7 days a week.

The questionnaire should take approximately 1 hour to complete. The bottom of each page has a progress bar showing you the current percentage of completion.

To begin the survey, please click Next. Any question marked with an asterisk must be answered before you can progress through the questionnaire. Please submit the completed questionnaire by September 24, 2018.

If you have any questions or need assistance from the Board, please contact [REDACTED] at [REDACTED]@dca.ca.gov.

The Board welcomes your feedback and appreciates your time!

Sincerely,

Joanne Wenzel
Interim Executive Officer
California State Board of Optometry

Part I - Personal Data

Complete this questionnaire only if you are currently licensed and practicing as an optometrist in California.

The California State Board of Optometry recognizes that every optometrist may not perform all of the tasks and use all of the knowledge contained in this questionnaire. However, your participation is essential to the success of this study, and your contributions will help establish standards for safe and effective optometry practice in the State of California.

Part I - Personal Data

The information you provide here is voluntary and confidential. It will be treated as personal information subject to the Information Practices Act (Civil Code, Section 1798 et seq.). This information will be used to generate a demographic profile of optometrists to aid in interpreting the task and knowledge ratings that are requested in Parts II and III. Please choose only one answer unless more than one is requested.

* 1. Do you currently practice as a licensed optometrist in California?

Yes

No

Part I - Personal Data

2. How would you classify the majority of your responsibilities as a licensed California optometrist?

- Professional/patient-oriented
- Administrative/managerial
- Educational/research-oriented

3. For how many years have you worked as a licensed optometrist in California?

- 0-5 years
- 6-10 years
- 11-20 years
- More than 20 years

4. How many hours per week do you work as a licensed optometrist?

- 9 hours or fewer
- 10-19 hours
- 20-29 hours
- 30-39 hours
- 40-49 hours
- 50 or more hours

5. Where were you educated for your degree in optometry?

- In California
- In a state other than California
- Outside the U.S.; please specify country below

Other (please specify)

6. Which title below most nearly matches your job title?

- Sole Owner / Principal
- Associate
- Partner
- Manager / Supervisor
- Staff Optometrist
- Consultant
- Researcher
- Educator
- Per diem

7. Which choice below better describes the location of your primary work setting?

- Urban (50,000 people or more)
- Rural (fewer than 50,000 people)

Part I - Personal Data

8. How would you describe your primary work setting?

- Private practice
- Partnership
- Group practice
- Corporation
- Educational facility
- Private hospital
- HMO facility
- Federal facility (nonmilitary)
- Military / veterans hospital or clinic
- State facility
- County facility
- Municipal facility
- Other (please specify)

9. In what area(s) of optometric practice do you work most? (Please choose 1—3 areas.)

- General practice
- Spectacles / protective eyewear
- Contact lenses
- Pathology /patient management
- Low vision
- Binocular therapy / vision training
- Comanagement with medical specialists
- Dry eye
- Pediatrics
- Other (please specify)

10. Please indicate which of the following certifications you hold:

- DPA
- TPA
- TPL
- TPG
- TLG

11. How often do you perform the following services?

	Does not apply to my practice	Rarely	Seldom	Regularly	Often	Very Often
Surgical preoperative/postoperative	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contact lens fitting /dispensing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Eyeglasses dispensing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Low vision dispensing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Epilation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Foreign body removal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Punctal plugs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vision training	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visual rehabilitation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lachrymal dilation/irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Refraction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Myopia control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. How often do you perform each of the following exams in your practice?

	Does not apply to my practice	Rarely	Seldom	Regularly	Often	Very Often
Routine comprehensive exam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medical office visit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pediatric exam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sports exam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Neuro-optometric exam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Low vision exam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Binocular vision / sensorimotor exam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contact lens exam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Glaucoma exam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. How often are each of the following activities performed in your practice?

	Does not apply to my practice	Rarely	Seldom	Regularly	Often	Very Often
Comanagement with medical specialists	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comanagement with optometric specialists	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
General health screening (e.g., blood pressure, diabetes, smoking)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community vision screening	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Part I - Personal Data

14. In what California county do you perform the majority of your work?

- | | | |
|------------------------------------|---------------------------------------|-------------------------------------|
| <input type="radio"/> Alameda | <input type="radio"/> Marin | <input type="radio"/> San Mateo |
| <input type="radio"/> Alpine | <input type="radio"/> Mariposa | <input type="radio"/> Santa Barbara |
| <input type="radio"/> Amador | <input type="radio"/> Mendocino | <input type="radio"/> Santa Clara |
| <input type="radio"/> Butte | <input type="radio"/> Merced | <input type="radio"/> Santa Cruz |
| <input type="radio"/> Calaveras | <input type="radio"/> Modoc | <input type="radio"/> Shasta |
| <input type="radio"/> Colusa | <input type="radio"/> Mono | <input type="radio"/> Sierra |
| <input type="radio"/> Contra Costa | <input type="radio"/> Monterey | <input type="radio"/> Siskiyou |
| <input type="radio"/> Del Norte | <input type="radio"/> Napa | <input type="radio"/> Solano |
| <input type="radio"/> El Dorado | <input type="radio"/> Nevada | <input type="radio"/> Sonoma |
| <input type="radio"/> Fresno | <input type="radio"/> Orange | <input type="radio"/> Stanislaus |
| <input type="radio"/> Glenn | <input type="radio"/> Placer | <input type="radio"/> Sutter |
| <input type="radio"/> Humboldt | <input type="radio"/> Plumas | <input type="radio"/> Tehama |
| <input type="radio"/> Imperial | <input type="radio"/> Riverside | <input type="radio"/> Trinity |
| <input type="radio"/> Inyo | <input type="radio"/> Sacramento | <input type="radio"/> Tulare |
| <input type="radio"/> Kern | <input type="radio"/> San Benito | <input type="radio"/> Tuolumne |
| <input type="radio"/> Kings | <input type="radio"/> San Bernardino | <input type="radio"/> Ventura |
| <input type="radio"/> Lake | <input type="radio"/> San Diego | <input type="radio"/> Yolo |
| <input type="radio"/> Lassen | <input type="radio"/> San Francisco | <input type="radio"/> Yuba |
| <input type="radio"/> Los Angeles | <input type="radio"/> San Joaquin | |
| <input type="radio"/> Madera | <input type="radio"/> San Luis Obispo | |

Part II - Job Task Ratings

INSTRUCTIONS FOR RATING TASK STATEMENTS

This part of the questionnaire contains 91 task statements. Please rate each task as it relates to your current job as a licensed optometrist using the Frequency and Importance scales displayed below.

FREQUENCY RATING SCALE

HOW OFTEN do you perform this task in your current practice?

- 0 - DOES NOT APPLY TO MY PRACTICE. I do not perform this task in my practice.
- 1 - RARELY. I perform this task the least often in my practice relative to other tasks I perform.
- 2 - SELDOM. I perform this task less often than most other tasks I perform in my practice.
- 3 - REGULARLY. I perform this task as often as other tasks I perform in my practice.
- 4 - OFTEN. I perform this task more often than most other tasks I perform in my practice.
- 5 - VERY OFTEN. This task is one of the tasks I perform most often in my practice relative to other tasks I perform.

IMPORTANCE RATING SCALE

HOW IMPORTANT is this task for performance in your current practice?

- 0 - DOES NOT APPLY. This knowledge is not required for performance of tasks in my current practice.
- 1- NOT IMPORTANT. This knowledge is not important for performance of tasks in my current practice.
- 2 - FAIRLY IMPORTANT. This knowledge is somewhat important for performance of tasks in my current practice.
- 3 - IMPORTANT. This knowledge is important for performance of tasks in my current practice.
- 4 - VERY IMPORTANT. This knowledge is very important for performance of tasks in my current practice.
- 5 - CRITICALLY IMPORTANT. This knowledge is extremely important for performance of tasks in my current practice.

NOTE: In the "Instructions for Rating Task Statements" on page 10 of the survey, the word "task" was inadvertently replaced with the word "knowledge" in the Importance Rating Scale. However, the wording was correct in the drop-down response boxes of the survey.

Part II - Job Task Ratings

Your Frequency and Importance ratings should be separate and independent ratings. Therefore, the ratings that you assign using one rating scale should not influence the ratings that you assign using the other rating scale.

If the task is NOT part of your current job, rate the task "0" (zero) Frequency and "0" (zero) Importance.

The boxes for rating the Frequency and Importance of each task have drop-down lists. Click on the "down" arrow in each box to see the rating, and then select the value based on your current practice.

Part II - Job Task Ratings

15. Please rate the following tasks based on how often you perform the task (Frequency) and how important the task is for performance of your job (Importance).

Patient Examinations.

	Frequency	Importance
1. Identify patient chief complaint, in addition to vision and ocular health history.	<input type="text"/>	<input type="text"/>
2. Obtain patient information regarding personal and family medical history.	<input type="text"/>	<input type="text"/>
3. Obtain patient information regarding social history (e.g., smoking, drugs, and alcohol).	<input type="text"/>	<input type="text"/>
4. Obtain patient information regarding current medication and sensitivity to medication.	<input type="text"/>	<input type="text"/>
5. Observe patient for alertness and orientation to person, place, and time.	<input type="text"/>	<input type="text"/>
6. Observe patient to identify facial, head, and postural anomalies.	<input type="text"/>	<input type="text"/>
7. Document patient visual acuities.	<input type="text"/>	<input type="text"/>
8. Test patient pupillary light responses and extraocular movement to determine neurological integrity.	<input type="text"/>	<input type="text"/>
9. Verify patient existing corrective lens prescription for comparison.	<input type="text"/>	<input type="text"/>
10. Test patient visual field for deficits.	<input type="text"/>	<input type="text"/>
11. Measure patient interpupillary distances.	<input type="text"/>	<input type="text"/>
12. Perform keratometry to assess the cornea.	<input type="text"/>	<input type="text"/>
13. Perform diagnostic tests to assess patient binocular alignment and ocular movement.	<input type="text"/>	<input type="text"/>
14. Perform objective measurement to assess refractive status.	<input type="text"/>	<input type="text"/>
15. Perform subjective refraction to refine refractive status at distance and near.	<input type="text"/>	<input type="text"/>
16. Perform binocular tests (e.g., heterophorias, ductions) to determine degree of ocular coordination.	<input type="text"/>	<input type="text"/>
17. Conduct examinations to assess vision-related learning disorders.	<input type="text"/>	<input type="text"/>
18. Perform accommodative tests to assess ocular focus ability.	<input type="text"/>	<input type="text"/>
19. Measure patient intraocular pressures to screen for pressure-related conditions.	<input type="text"/>	<input type="text"/>
20. Perform biomicroscopy to aid in assessing patient ocular health.	<input type="text"/>	<input type="text"/>

	Frequency	Importance
21. Evert patient eyelids to identify diseases, foreign bodies, and allergies.	<input type="text"/>	<input type="text"/>
22. Perform gonioscopy to determine the integrity of angle structures.	<input type="text"/>	<input type="text"/>
23. Use diagnostic pharmaceutical agents (DPAs) to facilitate refractive and ocular health assessment.	<input type="text"/>	<input type="text"/>
24. Perform direct or binocular indirect ophthalmoscopy to assess health of posterior segment.	<input type="text"/>	<input type="text"/>
25. Perform color deficiency tests when indicated by patient risk factors.	<input type="text"/>	<input type="text"/>
26. Perform and interpret threshold visual field tests as indicated by history or prior test results.	<input type="text"/>	<input type="text"/>
27. Use and interpret specialty tests (e.g., pachymetry, optic nerve head analysis) for treatment or referral.	<input type="text"/>	<input type="text"/>
28. Use Amsler grid to reveal central field irregularities.	<input type="text"/>	<input type="text"/>
29. Take and evaluate patient blood pressure.	<input type="text"/>	<input type="text"/>
30. Recognize patient random serum glucose levels.	<input type="text"/>	<input type="text"/>

Part II - Job Task Ratings

16. Please rate the following tasks based on how often you perform the task (Frequency) and how important the task is for performance of your job (Importance).

Diagnoses and Treatment Plans.

	Frequency	Importance
31. Explain refractive treatment options to patients.	<input type="text"/>	<input type="text"/>
32. Make differential diagnoses based on symptoms, history, physical examination, and test results.	<input type="text"/>	<input type="text"/>
33. Confirm diagnoses using diagnostic findings, consultative reports, and references.	<input type="text"/>	<input type="text"/>
34. Identify patients with systemic disorders that may affect the eyes or visual system.	<input type="text"/>	<input type="text"/>
35. Develop and communicate a treatment plan to address visual abnormalities and eye diseases and disorders.	<input type="text"/>	<input type="text"/>
36. Educate patients on maintaining visual health and integrity.	<input type="text"/>	<input type="text"/>
37. Refer patients to other specialists as indicated by history or examination findings.	<input type="text"/>	<input type="text"/>

Part II - Job Task Ratings

17. Please rate the following tasks based on how often you perform the task (Frequency) and how important the task is for performance of your job (Importance).

Spectacles and Protective Eyewear.

	Frequency	Importance
38. Educate patients about frame and lens options to assist them in making an informed decision.	<input type="text"/>	<input type="text"/>
39. Prescribe base curves and lens thicknesses that improve visual function, appearance, and comfort.	<input type="text"/>	<input type="text"/>
40. Prescribe spectacles to improve patient vision.	<input type="text"/>	<input type="text"/>
41. Adjust and repair spectacle frames to give patients secure, comfortable, pleasing, and optically correct fit.	<input type="text"/>	<input type="text"/>
42. Inform patients about proper care of spectacles.	<input type="text"/>	<input type="text"/>
43. Investigate and address patient complaints with newly prescribed spectacles.	<input type="text"/>	<input type="text"/>
44. Prescribe and explain the need for protective eyewear.	<input type="text"/>	<input type="text"/>

Part II - Job Task Ratings

18. Please rate the following tasks based on how often you perform the task (Frequency) and how important the task is for performance of your job (Importance).

Contact Lenses.

	Frequency	Importance
45. Evaluate patient preferences, needs, and goals when patients are considering or requesting contact lenses.	<input type="text"/>	<input type="text"/>
46. Review patient history to evaluate problems with contact lenses; and conditions, allergies, or medications that might affect contact lens use.	<input type="text"/>	<input type="text"/>
47. Review examination records to identify patient past or current corrective prescriptions.	<input type="text"/>	<input type="text"/>
48. Examine patient with biomicroscope to check for current ocular health conditions that affect contact lens use.	<input type="text"/>	<input type="text"/>
49. Determine if patient would benefit from a prosthetic or therapeutic lens.	<input type="text"/>	<input type="text"/>
50. Measure patient corneas and the contribution to total astigmatism and total refraction.	<input type="text"/>	<input type="text"/>
51. Verify lens parameters for rigid lenses with instruments.	<input type="text"/>	<input type="text"/>
52. Use corneal topography to determine corneal health and quality of vision.	<input type="text"/>	<input type="text"/>
53. Determine the type of contact lens for patients (e.g., soft vs. RGP, spherical vs. toric) based on patient needs and requirements.	<input type="text"/>	<input type="text"/>
54. Evaluate the contact lens modality for patients (e.g., daily wear, extended wear, flexible wear).	<input type="text"/>	<input type="text"/>
55. Calculate the parameters of the lenses to be prescribed from diagnostic data.	<input type="text"/>	<input type="text"/>
56. Perform over-refraction with contact lenses in place.	<input type="text"/>	<input type="text"/>
57. Evaluate the fit and movement of contact lenses with a biomicroscope or Burton lamp.	<input type="text"/>	<input type="text"/>
58. Educate patient or caregiver in the handling, risks, and use of contact lenses.	<input type="text"/>	<input type="text"/>
59. Analyze and address patient complaints with prescribed contact lenses.	<input type="text"/>	<input type="text"/>
60. Monitor and evaluate patient physiological response to contact lens wear.	<input type="text"/>	<input type="text"/>

Part II - Job Task Ratings

19. Please rate the following tasks based on how often you perform the task (Frequency) and how important the task is for performance of your job (Importance).

Management of Eye Disorders and Referrals.

	Frequency	Importance
61. Prescribe oral or topical medications to treat ocular diseases, disorders, and trauma.	<input type="text"/>	<input type="text"/>
62. Determine dry eye treatment based on symptoms and clinical findings.	<input type="text"/>	<input type="text"/>
63. Remove nonpenetrating foreign bodies from cornea, sclera, eyelid, or adnexa with instruments.	<input type="text"/>	<input type="text"/>
64. Epilate eyelashes to treat trichiasis.	<input type="text"/>	<input type="text"/>
65. Monitor glaucoma suspects and treat glaucoma patients.	<input type="text"/>	<input type="text"/>
66. Refer glaucoma patients to specialists.	<input type="text"/>	<input type="text"/>
67. Treat patients with disorders of the anterior or posterior segment.	<input type="text"/>	<input type="text"/>
68. Refer patients with ocular and suspected systemic conditions to other health care providers.	<input type="text"/>	<input type="text"/>
69. Provide nutritional recommendations that may help prevent or slow progression of eye diseases.	<input type="text"/>	<input type="text"/>
70. Manage patients with ocular and other medical emergencies.	<input type="text"/>	<input type="text"/>
71. Educate patients regarding eye conditions, including possible risks and benefits of treatment.	<input type="text"/>	<input type="text"/>
72. Manage patients to improve or enhance visual function.	<input type="text"/>	<input type="text"/>
73. Comanage patient treatment with other medical professionals.	<input type="text"/>	<input type="text"/>

Part II - Job Task Ratings

20. Please rate the following tasks based on how often you perform the task (Frequency) and how important the task is for performance of your job (Importance).

Laws and Regulations.

	Frequency	Importance
74. Obtain consent to provide services from patient, parent, or guardian.	<input type="text"/>	<input type="text"/>
75. Report suspected child or elder abuse to authorities.	<input type="text"/>	<input type="text"/>
76. Conform to current optometric scope of practice.	<input type="text"/>	<input type="text"/>
77. Maintain patient records in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
78. Release patient records in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
79. Provide discounts for services in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
80. Order laboratory tests or imagery in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
81. Prescribe contact and spectacle lenses in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
82. Prescribe spectacle lenses in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
83. Prescribe contact lenses in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
84. Advertise optometric services offered in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
85. Remove foreign bodies from the eye in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
86. Refer patients to other health care providers without personal benefit in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
87. Treat and manage glaucoma patients in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
88. Manage optometry office, staff, and assistants in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
89. Display optometric license in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
90. Prescribe therapeutic pharmaceutical agents in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>
91. Use professional conduct with patients and practice in accordance with laws and regulations.	<input type="text"/>	<input type="text"/>

INSTRUCTIONS FOR RATING KNOWLEDGE STATEMENTS

This part of the questionnaire contains 223 knowledge statements. Please rate each of the knowledge statements based on how important you believe the knowledge is for performance of your current job as a licensed optometrist.

If the knowledge is NOT required for performance of your current job, rate the statement as "DOES NOT APPLY."

Please use the following scale to make your ratings:

IMPORTANCE SCALE

HOW IMPORTANT is this task for performance in your current practice?

0 - DOES NOT APPLY. This knowledge is not required for performance of tasks in my current practice.

1- NOT IMPORTANT. This knowledge is not important for performance of tasks in my current practice.

2 - FAIRLY IMPORTANT. This knowledge is somewhat important for performance of tasks in my current practice.

3 - IMPORTANT. This knowledge is important for performance of tasks in my current practice.

4 - VERY IMPORTANT. This knowledge is very important for performance of tasks in my current practice.

5 - CRITICALLY IMPORTANT. This knowledge is extremely important for performance of tasks in my current practice.

Part III - Job Knowledge Ratings

21. How important is this knowledge for performance of tasks in your current job?

Patient Examinations

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
1. Knowledge of the elements needed to complete a comprehensive ocular health history (e.g., prior surgeries).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Knowledge of methods to elicit chief complaint, symptoms, and ocular, medical, and family history.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Knowledge of congenital and developmental syndromes and the effects on vision.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Knowledge of methods to elicit history of past injuries (e.g., head trauma).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Knowledge of methods to elicit patient use of smoking, drugs, and alcohol.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Knowledge of methods to elicit patient occupational and recreational activities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. Knowledge of patient medications that may induce eye or other disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Knowledge of behavioral signs indicative of patient impairments.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Knowledge of common facial anomalies (e.g., carcinoma, ptosis) and health implications.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Knowledge of neurological conditions related to vision.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Knowledge of methods to determine visual acuity of various patient populations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Knowledge of pinhole acuity testing and interpretation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Knowledge of procedures to perform cranial-nerve assessments to determine patient neurological status.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Knowledge of methods to test for pupillary anomalies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Knowledge of pupillary anomalies and their underlying causes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. Knowledge of methods to determine parameters of existing spectacles or contact lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17. Knowledge of methods to perform visual field tests.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18. Knowledge of methods to measure patient interpupillary distance.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. Knowledge of methods to interpret keratometry results.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
20. Knowledge of symptoms and clinical signs of binocular dysfunction.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21. Knowledge of methods to perform and interpret tests for defects in binocular alignment and eye movement (e.g., cover tests).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22. Knowledge of methods to perform retinoscopy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23. Knowledge of methods and procedures to determine prescription for corrective lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24. Knowledge of procedures to perform subjective refraction at both distance and near.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25. Knowledge of methods to use Jackson cross cylinders to refine axis and power measurements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26. Knowledge of methods to modify refractive examinations for low-vision patients.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27. Knowledge of methods to refract with a trial frame and prescribe lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28. Knowledge of relationship between accommodation and convergence.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29. Knowledge of methods to perform tests for detecting eye suppression.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30. Knowledge of methods to determine patient near points of convergence and accommodation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31. Knowledge of methods to differentiate accommodative and binocular dysfunction.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32. Knowledge of methods to perform and interpret tests for stereopsis.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33. Knowledge of methods to determine patient fixation disparity.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34. Knowledge of binocular tests using a phoropter.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35. Knowledge of methods to use prisms to determine patient binocular status.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36. Knowledge of visual system developmental stages.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37. Knowledge of motor and visual developmental milestones in children.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38. Knowledge of examination procedures needed to identify visual processing disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39. Knowledge of symptoms of learning-related disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40. Knowledge of methods to measure accommodative status.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41. Knowledge of topical anesthetics, dyes, or combinations and their applications.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
42. Knowledge of procedures of instilling dyes, anesthetics, or combinations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43. Knowledge of methods to remedy adverse effects of instilling dyes, anesthetics, or combinations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44. Knowledge of Goldmann and other tonometry methods.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45. Knowledge of eye anatomy and the normal range of variation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
46. Knowledge of common anomalies of the anterior segment and implications for vision and health.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
47. Knowledge of techniques to perform biomicroscopy to detect anomalies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
48. Knowledge of methods and procedures for performing gonioscopy to evaluate angle structures and the fundus.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
49. Knowledge of adverse reactions and complications of UV and other radiation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
50. Knowledge of ocular pathologies and the extent to which those effects are remediable.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
51. Knowledge of procedures to evert patient eyelids and recognize diseases.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
52. Knowledge of indications and contraindications of mydriatics and cycloplegics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
53. Knowledge of methods to manage adverse effects of mydriatics and cycloplegics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
54. Knowledge of ocular manifestations of systemic diseases.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
55. Knowledge of methods to perform direct and binocular indirect ophthalmoscopy to detect posterior segment anomalies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
56. Knowledge of indications of binocular indirect ophthalmoscopy with scleral depression.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
57. Knowledge of common anomalies of the posterior segment, clinical signs, and implications for vision and health.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
58. Knowledge of hypertension and its effects on systemic and ocular health.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
59. Knowledge of diabetes and its effects on systemic and ocular health.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
60. Knowledge of ocular findings that may indicate the presence of systemic diseases.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
61. Knowledge of color vision testing materials, procedures, and interpretation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
62. Knowledge of methods to measure and interpret threshold visual field.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
63. Knowledge of methods used to localize the neural lesion causing a particular visual defect.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
64. Knowledge of etiology of low vision.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
65. Knowledge of methods to identify the visual conditions of low-vision patients.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
66. Knowledge of psychosocial aspects of low vision.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
67. Knowledge of Amsler grid test procedures and interpretation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
68. Knowledge of methods to take patient blood pressure with standard measuring equipment.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
69. Knowledge of conditions that require evaluation of patient blood pressure.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Part III - Job Knowledge Ratings

22. How important is this knowledge for performance of tasks in your current job?

Diagnosis and Treatment Plan

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
70. Knowledge of methods to explain refractive treatment options.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
71. Knowledge of methods to eliminate symptoms of discomfort or diplopia.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
72. Knowledge of testing procedures to confirm the presence of ocular and visual disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
73. Knowledge of common causes and sequelae of eye disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
74. Knowledge of methods to recognize systemic diseases that produce similar ocular presentations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
75. Knowledge of ocular pathologies and ocular immunological responses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
76. Knowledge of methods to perform differential diagnostic procedures.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
77. Knowledge of situations that require an order or referral for imaging or laboratory tests.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
78. Knowledge of pertinent laboratory test findings and their implications for patient symptoms and clinical signs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
79. Knowledge of common drugs and medications and their potential interactions and adverse reactions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
80. Knowledge of the effects of acute, chronic, and recurrent systemic disorders on the eyes and vision.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
81. Knowledge of methods to identify ocular manifestations of systemic diseases.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
82. Knowledge of using eccentric fixation as a treatment option.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
83. Knowledge of psychosomatic visual disorders and symptoms.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
84. Knowledge of treatments and alternatives for common eye diseases and disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
85. Knowledge of the risks, benefits, and prognosis of treatments and alternatives for common eye diseases and disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
86. Knowledge of the relative cost of treatments and alternatives for common eye diseases and disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
87. Knowledge of methods for developing and modifying vision training programs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	0					5
	Does	1	2	3	4	
	Not	Not	Fairly	Important	Very	Critically
	Apply	Important	Important	Important	Important	Important
88. Knowledge of methods for monitoring patient progress in vision training programs.	<input type="radio"/>					
89. Knowledge of training methods to improve learning-related visual functions.	<input type="radio"/>					
90. Knowledge of occupational, recreational, and lifestyle factors that affect visual health and integrity.	<input type="radio"/>					
91. Knowledge of factors that indicate a patient is legally blind.	<input type="radio"/>					
92. Knowledge of factors that indicate a patient needs referral for neuro-optometric rehabilitation.	<input type="radio"/>					

Part III - Job Knowledge Ratings

23. How important is this knowledge for performance of tasks in your current job?

Spectacles and Protective Eyewear

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
93. Knowledge of advantages and disadvantages of particular lens types, designs, and materials.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
94. Knowledge of how base curve, thickness, and vertex distance affect image size and patient comfort.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
95. Knowledge of prescribing supplemental spectacles for contact lens wearers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
96. Knowledge of patient adaptation when alternating between contact lenses and spectacles.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
97. Knowledge of spectacle frame materials, types, and styles.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
98. Knowledge of spectacle frame styles suitable for specific corrections and lens types.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
99. Knowledge of care and limitations of specific lenses, tints, and coatings.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
100. Knowledge of common needs for protective eyewear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
101. Knowledge of lens and prism corrections for binocular misalignment, latent hyperopia, or aniseikonia.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
102. Knowledge of measurement and dispensing techniques for various types of multifocals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
103. Knowledge of methods to adjust and repair spectacle frames to fit patients securely and comfortably.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
104. Knowledge of ANSI standards for ophthalmic products.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
105. Knowledge of OSHA standards for safety eyewear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
106. Knowledge of manufacturers' indicators for safety lenses and frames.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Part III - Job Knowledge Ratings

24. How important is this knowledge for performance of tasks in your current job?

Contact Lenses

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
107. Knowledge of patient suitability for contact lens wear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
108. Knowledge of environmental conditions that affect contact lens wear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
109. Knowledge of types, characteristics, and chemical qualities of various contact lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
110. Knowledge of advantages and disadvantages of various contact lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
111. Knowledge of contact lens wear schedules based on eye condition, lens type, and lens materials.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
112. Knowledge of remedies for common patient complaints about contact lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
113. Knowledge of causes of common patient complaints about contact lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
114. Knowledge of common medications, ocular, and systemic diseases that affect contact lens wear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
115. Knowledge of sensitivities to contact lens materials and solutions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
116. Knowledge of methods to minimize or prevent sensitivities to contact lens materials and solutions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
117. Knowledge of binocular vision dysfunction that can affect contact lens wear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
118. Knowledge of methods to assess patient subjective response to contact lens wear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
119. Knowledge of methods to change contact lens parameters to improve fit and vision.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
120. Knowledge of methods to use biomicroscopy to identify eye anomalies that affect contact lens wear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
121. Knowledge of methods to test the quantity and quality of tear production.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
122. Knowledge of size and location of the palpebral fissure and its importance in fitting contact lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
123. Knowledge of prosthetic or therapeutic contact lenses that improve the appearance or function of abnormal or damaged eyes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
124. Knowledge of methods to measure ocular parameters relevant to prescribing contact lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
125. Knowledge of methods to take keratometry measurements for determining contact lens prescriptions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
126. Knowledge of methods to take keratometry measurements to evaluate total and corneal astigmatism.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
127. Knowledge of corneal topography to determine patient suitability for contact lens wear or corneal refractive therapy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
128. Knowledge of methods to use refraction, keratometry, test measurements, and diagnostic lens fittings to determine lens choices.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
129. Knowledge of methods to measure rigid lens parameters.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
130. Knowledge of factors that indicate patient suitability for corneal refractive therapy or other treatment options.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
131. Knowledge of methods to use corneal topography to diagnose eye conditions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
132. Knowledge of methods to fit and assess rigid lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
133. Knowledge of methods to fit and assess soft lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
134. Knowledge of methods to fit contact lenses after eye surgery.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
135. Knowledge of contact lens replacement schedules based on lens type.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
136. Knowledge of the use of contact lens care products recommended for patients based on eye condition and lens type.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
137. Knowledge of use of over-refraction to determine lens correction using trial lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
138. Knowledge of methods to educate patients about the recommended use and care of contact lenses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
139. Knowledge of methods to prevent contact lens sequelae.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
140. Knowledge of treatments for contact lens-related eye problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
141. Knowledge of methods to troubleshoot contact lens problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
142. Knowledge of methods to evaluate patient physiological response to contact lens wear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Part III - Job Knowledge Ratings

25. How important is this knowledge for performance of tasks in your current job?

Management of Eye Disorders and Referrals

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
143. Knowledge of methods to write prescriptions for therapeutic drugs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
144. Knowledge of indications and contraindications of therapeutic drugs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
145. Knowledge of dosages, administration schedules, and durations of use of therapeutic drugs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
146. Knowledge of methods for administering therapeutic drugs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
147. Knowledge of side effects and options for managing the side effects of therapeutic drugs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
148. Knowledge of interaction of therapeutic drugs and UV exposure.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
149. Knowledge of possible interactions between ocular and systemic medications.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
150. Knowledge of adverse interactions of ocular and systemic medications.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
151. Knowledge of the use of ocular lubricants.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
152. Knowledge of punctal plugs to relieve eye dryness.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
153. Knowledge of methods to insert punctal plugs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
154. Knowledge of preventive care and treatment options for eyelid and ocular surface diseases.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
155. Knowledge of instruments and procedures for removing non-perforating foreign bodies from the eye.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
156. Knowledge of follow-up treatment after removal of non-perforating foreign bodies from the eye.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
157. Knowledge of instruments and procedures for epilating eyelashes to relieve trichiasis.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
158. Knowledge of glaucoma classifications treatable by an optometrist.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
159. Knowledge of methods for glaucoma management and comanagement.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
160. Knowledge of glaucoma patient conditions for which a referral is necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
161. Knowledge of procedures for stabilizing patients for emergency referral.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
162. Knowledge of management of anterior segment disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
163. Knowledge of management of posterior segment disorders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
164. Knowledge of patient conditions for which a referral necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
165. Knowledge of eye or vision disorders and relevant specialists for referrals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
166. Knowledge of systemic disorders that require a referral to other medical professionals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
167. Knowledge of recurrent symptoms or signs that indicate or require a referral.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
168. Knowledge of information required in referral or consultation letters.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
169. Knowledge of methods to explain the risks, benefits, alternatives, and possible complications of eye surgery.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
170. Knowledge of ocular and systemic diseases that affect eyesight, health, or life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
171. Knowledge of nutrition and nutritional supplements as they relate to ocular health.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
172. Knowledge of ocular symptoms that indicate a patient should be seen immediately.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
173. Knowledge of methods to train office staff to identify the symptoms that require a patient to be seen immediately.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
174. Knowledge of extended examination procedures for common ocular emergencies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
175. Knowledge of symptoms and responses that require immediate attention (e.g., vasovagal reaction).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
176. Knowledge of symptoms that indicate an emergency that requires an immediate referral to another medical professional.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
177. Knowledge of visual function conditions and relevant specialists for referrals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
178. Knowledge of etiology and prognosis of ocular conditions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	0	1	2	3	4	5
	Does Not Apply	Not Important	Fairly Important	Important	Very Important	Critically Important
179. Knowledge of patient suitability for eye surgery.	<input type="radio"/>					
180. Knowledge of the risks, benefits, alternatives, and possible complications of eye surgery.	<input type="radio"/>					
181. Knowledge of neuro-optometric rehabilitation methods for treating brain injury patients.	<input type="radio"/>					
182. Knowledge of training methods to enhance visual functions.	<input type="radio"/>					
183. Knowledge of ocular surgical complications and remedies.	<input type="radio"/>					
184. Knowledge of methods to manage treatment for a patient with developing or advanced ocular pathology.	<input type="radio"/>					
185. Knowledge of pre- and post-operative optometric care for patients referred for surgery.	<input type="radio"/>					

Part III - Job Knowledge Ratings

26. How important is this knowledge for performance of tasks in your current job?

Laws and Regulations

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
186. Knowledge of laws and regulations related to parent or guardian consent for treating minors.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
187. Knowledge of the methods to report suspected child or elder abuse to authorities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
188. Knowledge of laws and regulations related to reporting suspected or known abuse of patients.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
189. Knowledge of certifications required for performing various optometric services.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
190. Knowledge of laws and regulations related to optometric scope of practice.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
191. Knowledge of laws and regulations related to testing patients for diabetes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
192. Knowledge of laws and regulations related to testing patients for ocular allergies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
193. Knowledge of laws and regulations related to administering flu, shingles, and pneumonia immunizations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
194. Knowledge of laws and regulations related to retention of patient records.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
195. Knowledge of laws and regulations related to providing receipts to patients.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
196. Knowledge of laws and regulations related to release of patient records.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
197. Knowledge of laws and regulations related to providing summaries of patient health records.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
198. Knowledge of laws and regulations related to solicitation for payment from patients.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
199. Knowledge of laws and regulations related to providing discounts for services.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
200. Knowledge of laws and regulations related to ordering laboratory tests or imagery.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
201. Knowledge of laws and regulations related to information required on a prescription.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	0 Does Not Apply	1 Not Important	2 Fairly Important	3 Important	4 Very Important	5 Critically Important
202. Knowledge of laws and regulations related to providing copies of prescriptions to patients.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
203. Knowledge of laws and regulations related to consumer notice posting related to consumer rights.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
204. Knowledge of laws and regulations related to shatter-resistant materials in a spectacle lens prescription.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
205. Knowledge of laws and regulations related to lens specifications required for a spectacle prescription.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
206. Knowledge of laws and regulations related to the release of a contact lens prescription.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
207. Knowledge of laws and regulations related to confirmation of contact lens prescriptions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
208. Knowledge of laws and regulations related to optometric advertising, misrepresentation, and false claims.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
209. Knowledge of laws and regulations regarding advertising free and discounted services.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
210. Knowledge of laws and regulations related to use of optometric title.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
211. Knowledge of laws and regulations regarding optometric certification designations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
212. Knowledge of laws and regulations regarding removal of foreign bodies from the eye.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
213. Knowledge of laws and regulations regarding solicitation of referrals that provide beneficial interest to family or self.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
214. Knowledge of laws and regulations regarding referral rebates.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
215. Knowledge of laws and regulations related to the treatment and management of glaucoma.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
216. Knowledge of laws and regulations related to the duties and supervision of optometric assistants and to the duties of registered dispensing opticians.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
217. Knowledge of laws and regulations related to infection control guidelines.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
218. Knowledge of laws and regulations related to use and display of optometric license.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
219. Knowledge of laws and regulations related to prescribing therapeutic drugs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	0					
	Does	1 Not	2	3	4 Very	5
	Not	Important	Fairly Important	Important	Important	Critically Important
	Apply					
220. Knowledge of laws and regulations related to administering therapeutic drugs and devices.	<input type="radio"/>					
221. Knowledge of laws and regulations regarding excessive prescribing.	<input type="radio"/>					
222. Knowledge of laws and regulations related to unprofessional conduct.	<input type="radio"/>					
223. Knowledge of laws and regulations regarding sexual contact, conduct, and relations with patients and staff.	<input type="radio"/>					

Thank you!

Thank you for taking the time to complete this questionnaire. The Board values your contribution to this study.

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