Skill Examinations

Candidates for the National Optician’s Practical Skill Examination will be required to perform the following tasks as assigned. Each task, spectacles and contact lens, requires 60 minutes to complete.

SPECTACLES
Examination

1. Measurement of Monocular Pupillary Distance
2. Measurement of Objective Segment Height
3. Neutralization of Spectacles

CONTACT LENS
Examination

1. Corneal Curvature Measurement (Keratometry)
2. Contact Lens Images and Conditions of the Eye
3. Evaluation of a Contact Lens Using a Slit Lamp
4. Slit Lamp Operation

National Commission of State Opticianry Regulatory Boards

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CHECKLISTS

The following checklists have been developed using best practices. It is highly recommended that you review the checklists, as well as the tutorial carefully prior to taking the simulated Spectacles and the Contact Lens examination(s). The term “given” in a checklist indicates that the step will already be completed for you. It is not necessary to perform the step.

**Tutorial Focus Points**

The tutorial located at www.NCSORB.org provides you with important information on the mechanics of the simulated Spectacle and Contact Lens examinations. Use the tutorial to become familiar with the following:

- General information about the procedures and processes
- Methods for starting, moving through, and completing the various tasks
- The selection and use of buttons in the Skill Examination screens
- Adjusting various instrument/equipment using the computer interface
- Recording and submitting final results

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**SPECTACLE EXAMINATION**

**MEASUREMENT OF MONOCULAR PUPILLARY DISTANCE**

**MEASUREMENT OF MONOCULAR PUPILLARY DISTANCE**

**PERFORM MONOCULAR PUPILLARY DISTANCE MEASUREMENT**

- Position Pupilometer (Given)
- Measure the monocular distance PD
- Measure the monocular near PD

**RECORD AND SUBMIT RESULTS**

- Record results for distance PD
- Record results for near PD
- Submit Results

**Passing Score:** 100%

**Tolerance Ranges:**

Interpupillary Distance +/- .25 mm

**SPECTACLE EXAMINATION**

**NEUTRALIZE SPECTACLES**

**RECORD PRESCRIPTION FOR EACH LENS ON TWO SETS OF SPECTACLES, IDENTIFY PRISM (IF PRESENT) IN EACH LENS FOR BOTH SETS OF SPECTACLES, RECORD RESULTS IN MINUS CYLINDER FORM**

**VIEW LENSES**

- Focus eyepiece (Given)
- Place spectacles on the stage (Given)
- Center lens on the stage
- Adjust axis dial
- Adjust power drum
- Read the lens to identify axis, power & bifocal add
- Identify prism power and direction if present

**RECORD AND SUBMIT RESULTS**

- Record results for both lenses on two sets of frames
- Submit results for both lenses on two sets of frames

**Passing Score:** 75%

**Tolerance Ranges:**

<table>
<thead>
<tr>
<th>Sphere</th>
<th>+/- 0.25 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder</td>
<td>+/- 0.25 D</td>
</tr>
<tr>
<td>Bifocal Add</td>
<td>+/- 0.25 D</td>
</tr>
<tr>
<td>Prism</td>
<td>+/- 0.25 D</td>
</tr>
<tr>
<td>Axis</td>
<td>+/- 3 degrees</td>
</tr>
</tbody>
</table>

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**MEASUREMENT OF OBJECTIVE SEGMENT HEIGHT**

**MEASURE OBJECTIVE SEGMENT HEIGHT**

- Measure objective segment height for three specific frames

**RECORD AND SUBMIT RESULTS**

- Record results for specific frames
- Submit results for specific frames

**Passing Score:** 70%

**Tolerance Ranges:**

<table>
<thead>
<tr>
<th>Segment Height</th>
<th>+/- 1.0 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progressive</td>
<td></td>
</tr>
<tr>
<td>Bifocal</td>
<td></td>
</tr>
<tr>
<td>Trifocal</td>
<td></td>
</tr>
</tbody>
</table>
CONTACT LENS EXAMINATION
EVALUATION OF CONTACT LENS USING A SLIT LAMP

VIEW AND IDENTIFY CONTACT LENS FITS USING A SLIT LAMP

PERFORM OBSERVATION
- View each lens that is placed on the patient

RECORD AND SUBMIT RESULTS
- Identify each lens fit
- Submit results for each lens fit

Passing Score: 80%

CONTACT LENS EXAMINATION
CORNEAL CURVATURE MEASUREMENT (KERATOMETRY)

MEASURE THE CORNEAL CURVATURE ON A MANUAL KERATOMETER AND RECORD THE RESULTS

CHECK CORNEAL CURVATURE
- Focus the eyepiece
- Position the keratometer
  - Horizontally
  - Vertically
  - Distance from the patient
  - Rotate the Drum
  - Adjust axis
  - Adjust horizontal and vertical powers

RECORD AND SUBMIT RESULTS
- Record results
- Submit results

Passing Score: 100%

Tolerance Ranges:
- Horizontal Power: +/- .25 D
- Vertical Power: +/- .25 D
- Horizontal Axis: +/- 5 degrees
- Vertical Axis: +/- 5 degrees

CONTACT LENS EXAMINATION
CONTACT LENS IMAGES & CONDITIONS OF THE EYE

CORRECTLY IDENTIFY IMAGES COMMON TO OPTICIANRY

PERFORM OBSERVATION
- View each image presented
- Identify each image presented

RECORD AND SUBMIT RESULTS
- Submit results for each image presented

Passing Score: 70%

CONTACT LENS EXAMINATION
SLIT LAMP OPERATION

ADJUST SLIT LAMP TO VIEW VARIOUS PATHOLOGIES AND ILLUMINATIONS

ADJUST SLIT LAMP
- Position slit lamp to proper focus
- Position slit lamp horizontally
- Position slit lamp vertically
- Set the illumination
- Adjust slit lamp angle
- Select filter setting

RECORD AND SUBMIT RESULTS
- Record and submit results for various pathologies and illuminations as viewed through the slit lamp

Passing Score: 70%
HOW THE SPECTACLE AND CONTACT LENS EXAMINATIONS ARE SCORED

There are two possible results for the task included in the Skill Examination:

**Pass:** You have successfully completed all tasks.

**Fail:** You did not successfully complete the required tasks; you must retake only those tasks.

To pass any individual task, a passing score must be achieved. To successfully complete the entire Skill Examination, an individual must pass all tasks as assigned. Passing percentages for the tasks range from 70 – 100%.

To evaluate the accuracy of results, the tolerance ranges indicated for each of the required categories have been established by a panel of opticianry experts. To receive a passing score all required results for the task must fall within the published tolerance ranges. Otherwise, a “fail” will be assigned for the specific task.

**Non-Scored Items:**
In addition to scored items, all candidates receive sample questions. While they are not identified or scored, these items are being tested for possible inclusion in future examinations.

**Examination Timing:**

**Spectacles**
Initial Simulated Examination - 60 Minutes

*Spectacles Retest(s)*
1. Measurement of Monocular Pupillary Distance - 10 minutes
2. Measurement of Objective Segment Height - 10 Minutes
3. Neutralization of Spectacles – 40 Minutes

**Contact Lenses**
Initial Simulated Examination – 60 Minutes

*Contact Lens Retest(s)*
1. Corneal Curvature Measurement – 10 Minutes
2. Contact Lens Images and Conditions of the Eye - 20 Minutes
3. Evaluation of a Contact Lens Using a Slit Lamp - 10 Minutes
4. Slit Lamp Operation – 20 Minutes

SPECTACLE AND CONTACT LENS EXAMINATION PREPARATION

It is highly recommended to prepare for the exam in the following manner:

1. Review the National Optician's Practical Examination tutorial carefully.
2. Review the tutorial again the day before the exam.
3. Read, understand, and commit to memory the Candidate Checklist.
4. Understand what is expected of each task.
5. Practice the skills with co-workers or another optician.
6. Consult with co-workers or an optician to critique your skills.

**Taking the exam:**

1. Take your time.
2. Read the instructions, scenario, and expected results carefully and completely.
3. Be methodical in performing each task.
4. Read dials carefully.
5. Double-check your findings.
6. Restart the task if you are dissatisfied with your final results.
7. Always record your results and press the submit button when satisfied with your data or results.

National Optician's Practical Examination Checklist last update August/2015
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