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## Exam Makeup

- 125 Multiple Choice Questions
- Analyze \& Interpret Prescription (38\%)
- Use Ophthalmic Equipment (23\%)

Three Hours to Complete

## ABO Masters Program

- Have written two published ABO-approved Advanced Level III
articles
OR
- Have written two published ABO-approved Advanced Level III
articles
OR
- An ABO-approved speaker with two ABO-approved Advanced
or
- Have one published ABO-approved Advanced Level III article which one $A B C$ are the aproved $A B$-approved Speaker.
which you are the ABO-approved Speaker. Course for

| Conflict of interest <br> The speaker, Thomas Neff LDO ABO-AC NCLE-AC, has not conflicts of <br> interest to disclose. |
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## ABO Masters Program

- The ABO Master in Ophthalmic Optics designation
demonstratesto to the pubticandmic opopieagusues thatat an
individual has attained a superior level in ophthalmic
individual has
dispensing.
- Any Optician who is currently Advanced Certified by American Board of Opticianry for at least one complete three-year renewal cycle, and satisisies one of three designation.


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## Domain 2 Tasks

- Evaluate the customer's/patients needs and wants
- Evaluate the parameters of the new and old eyewear
- Design and market ophthalmic instrumentation and eyewear
- Evaluate the results of facial, ocular and frame measurements
- Verify the ordered eyewear in accordance with the specifications on the order form
a eyewear in relation to the customer's/patient's head and fac
- Educate customer's on products and performance
- Apply ophthalmic professional and legal guidelines

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## 

- Lensomerry
- Refractive Error
- Prescription Imbalance
- Vertex Distance \& Compensation
- Prescription Use: Occupational \& Rec

Lens Type: Tints and Coatings

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## Lens Quptirns and Addritiranal Prifs

- Discuss during frame selection, not at the closing.
- Better yet, in exam chair with Doc..
- Explain features and benefits.
- Relate to their needs.
- Demonstrate!
- Include when pricing eyewear early in the frame
selection process, azoid sticker shock.

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## Opticeal Thpeory

- Merric System
- Light
- Lens Material Characteristics
- Lens Design
- Plus Lenses
- Minus Lenses
- Compound Lens
- Lens Power
- 

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## Mhimbls teems Charizetterizstires

- Series of apex to apex prisms increasing in power from the center to the
edge.
Thinnest at the center.
- Minify
- Exhibits "With Motion"
- Designs:
- Equiconcave, Biconcave
- Meniscus

Phus leems Charifactrerinstices

- Can visualize as "base to base"
prisms increasing in power from
the center to the edge.
- Magnify
- Exhibit "Against Motion"
- Designs:
- Equiconvex, Biconvex
- Flat Convex

50


51

$$
\begin{aligned}
& \text { Hens Power } \\
& \rightarrow \text { The power of a lens in diopters is equal to the reciprocal of it's } \\
& \mathrm{D}=1 / \mathrm{f} \\
& \mathrm{f}=1 / \mathrm{D} \\
& \text { D = dioptric power of lens (in D) } \\
& \mathrm{F}=\text { focal length of lens (in } \mathrm{M} \text { ) } \\
& 54
\end{aligned}
$$

48



55


58

| Qupticeall Gentaler- Phteemenht <br> - Optical Center:Those points on the front and back surface of a lens where the curves are parallel |
| :---: |
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