







## ABOAC Blueprint

- Analyze & Interpret Prescription
- Design, Fit & Dispense Eyewear and Other Ophthalmic Devices
- Use Ophthalmic Instrumentation





## ABO Masters Program

- The ABO Master in Ophthalmic Optics designation demonstrates to the public and colleagues that an individual has attained a superior level in ophthalmic dispensing.
- Any Optician who is currently Advanced Certified by the American Board of Opticianry for at least one complete three-year renewal cycle, and satisfies one of three additional qualifications is eligible to apply for this designation.

## ABO Masters Program Have written two published ABO-approved Advanced Level III articles OR An ABO-approved speaker with two ABO-approved Advanced Level III Courses, or OR Have one published ABO-approved Advanced Level III article AND one ABO- approved Advanced Level III Course for which you are the ABO-approved Speaker.

Analyze and Interpret Visual Assessment Part 1









8

Domain 1 Tasks

vision

Analyze customer's/patient's prescription
Recognize limitations of the prescription

> Assess medical abnormalities of the customer's/patient's

11

















21

## Prism

- Measurement
- Patient Problems
- Base Down
- Base Up
- Base In or Out
- Decentration to obtain prism
- Slab Off
- Image Jump



22



































Power at 180 and 90
What is the power at 180 and 90 for following Rxs:
-3.00 -1.00 × 045
-3.00 -1.00 × 030
-3.00 -1.00 × 060
Power at 180 = SPH + ((sin axis)<sup>2</sup> \* cyl power)
Power at 090 = SPH + (cos(axis)<sup>2</sup> \* Cyl power)

39

Prism Problems	
SPHERE power is in ENTIRE lens Cyl power is based upon how far away from rx cyl axis:	
at rx axis or 0 degrees away	= 0%
30 degrees	= 25%
45 degrees	= 50%
60 degrees	= 75%
90 degrees	= 100% of Cyl
•	

40



Slab Off
 OD -4.00 -2.00 x 180
 OS -2.50 -0.50 x 180 +2.50 Add OU
 ST 28 bifocal
 Looking 4 mm above seg at dist
 Looking 5 mm below seg while reading
 Total 9mm drop
 OD: Power at 90=-6.00 Drop = 9mm prism = 5.4
 OS: Power at 90 = -3.00 Drop = 9mm prism = 2.7
 Difference = 2.7 Prism diopters...will require that much Slab off
 in OD to eliminate vertical imbalance



Slab Off

Note...can also take DIFFERENCE in dist power at 90 between OD and OS and multiply by amount eye drops vertically and will come up with same difference (as long as ADDs are similar)

 Prism Problems

 Decentration to obtain prism problem

 How far must a +2.00 +2.00 x 135 lens be moved to create 2^?

44



45















