"A Systematic Approach to Lens Verification for Ophthalmic Quality Assurance"





### Michelle J. Hoff, OD, FAAO, ABOM, FNAO



- ♦ University of California Berkeley | Associate Professor of Health Sciences
- Mindful Eyes Foundation | Founder and Executive Director
   SightLine Ophthalmic Consulting | Co-founder and CEO
- ◆ Doctor of Optometry (OD)
   ◆ Master in Ophthalmic Optics (ABOM)
- Registered Spectacle Lens Dispenser (CA-SLD
   Licensed Optometrist (CA-DCA)

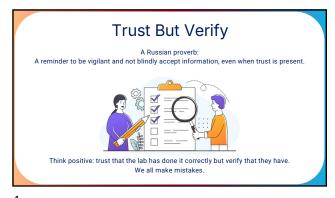


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### **Disclosures**



- ☐ The content of this course was developed independently without commercial bias or influence
- ☐ Consulting
  ☐ Essilor Instruments, USA
  - Visionix USA
  - ☐ Topcon Healthcare
  - Quest Vision Care Specialty Lab



## Prerequisites for this presentation

### An understanding of

- Spectacle prescriptions
- Lens designs
- Manual lensometry
  - Prism
  - Single vision
  - Bifocal/Trifocal
  - Variable power lenses
- ANSI Standards



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## **Learning Journey Objectives**



- $\hfill \Box$  Choose your lab partner wisely
- Why Verification?
- ☐ Initial Visual Inspection
- ☐ Frame Information
- ☐ Verifying the Prescription
- Design/Material/Treatment
- ANSI standards
- □ Case Examples

# Choose Your Lab Partner Wisely

### Key Criteria

- □ Quality/Accuracy Standards
  □ Ask about error rates
  □ Steps to minimize mistakes
  □ Turnaround Time/Reliability
- □ Processing time
  □ Relay communication
- Relay communication
  Rush services
  Technical Capabilities/Equipment
  Modern surfacing/finishing
  equipment
  Ability to do specialty work
  Lens Material/Coating Options
  Stock or source

- ☐ Customer Service/Communication



### Importance of Lens Verification: Protect the patient and your business



Catch the errors before they reach the patient



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### Patient Safety & Quality of Vision



- ☐ Lenses match prescribed specifications
  - ☐ Eye strain, headaches, blurred/double vision
  - □ Trip/Fall prevention





# Cost & Efficiency Prevent Patient complaints/returns Loss of appointment time

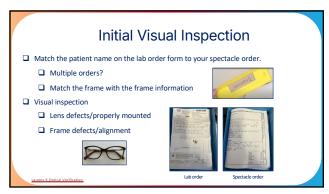
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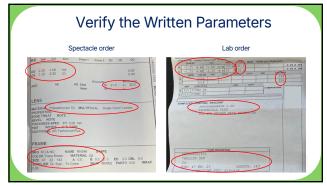
# Brand & Reputation Management Consistent delivery of high quality products builds Trust Referrals

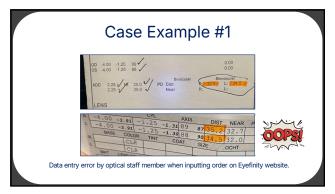


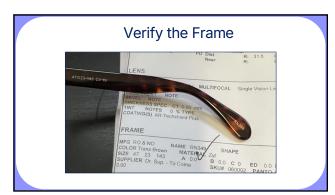






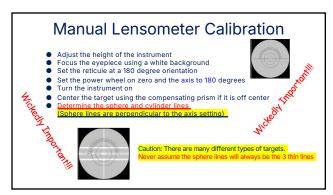


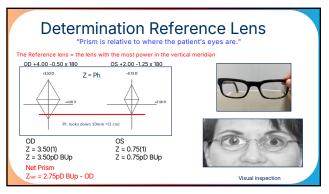


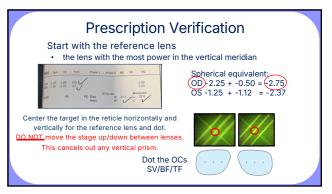






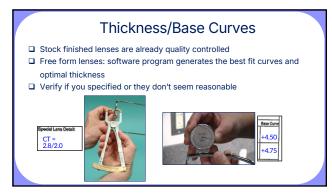




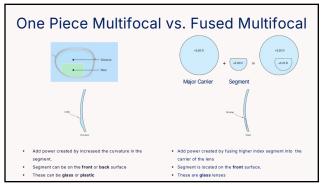


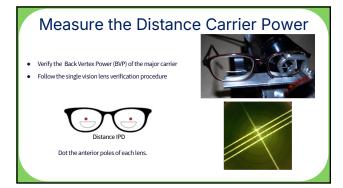


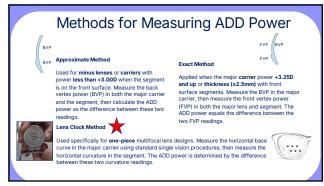


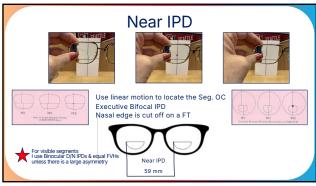


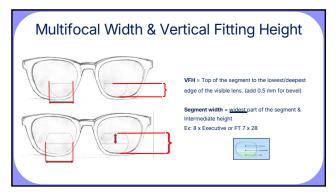




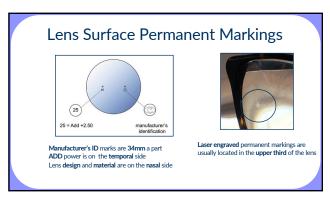


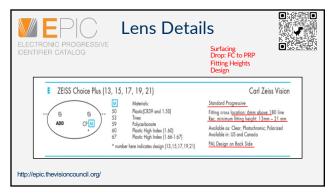


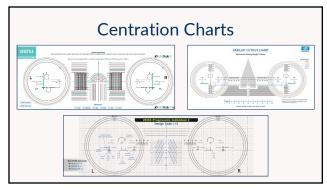


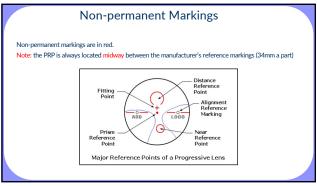


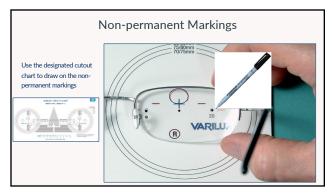




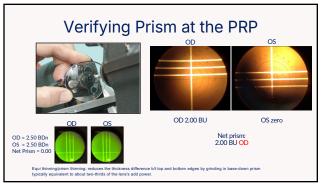


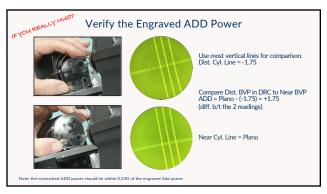


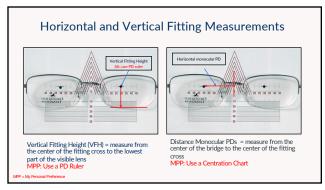






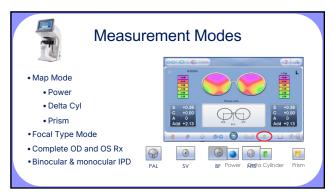


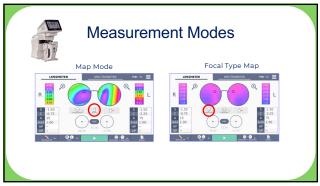


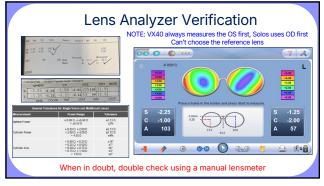


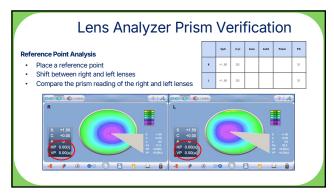


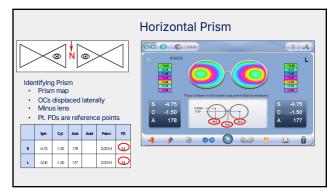


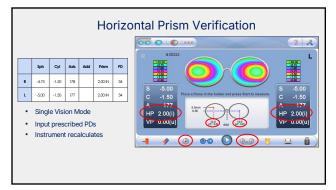


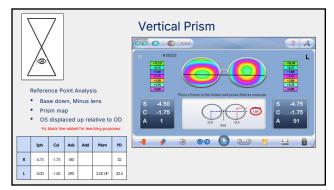


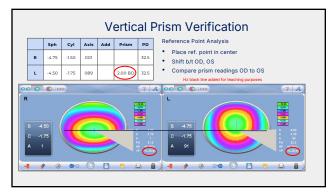


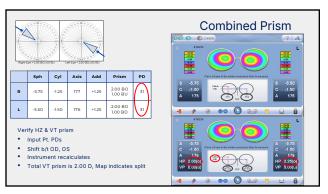














# Final Lens and Frame Inspection

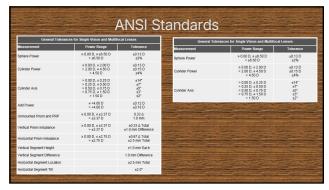
### Look for:

- Lens imperfections (scratches/pits/warpage/specks)
- Coating imperfections (hazy,crazing, orange peel, bubbles, sag)
- Edge bevel quality (chips, spaces, placement)
- Safety bevelRolled/Polished edges



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### **Verification Checklist** • Patient name/Job # Frame Info Focal Type Material • Prescription • IPDs VFHs · Lens Treatments



### Takeaway Message



- Choose you lab wisel
- Create/document a systematic approach to verification (staff training, liability)
- Have a solid knowledge of optics, never stop learning
   Keep up-to-date on the latest ophthalmic products
- Explore new instruments for better efficiency but keep the gold
- standards for back up
  Use ANSI standards as guidelines
- Trust but verify, let common sense and knowledge be your guide

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