



# Optician Curriculum

Year 1 - Topic	Year 2 - Topic	Year 3 - Topic
Pretest	Pretest – Workbook 2	Pretest – Book 3
Theory of Light	Prescription Interpretation	Prism
Prism	Prismatic Effect	Anatomy of the Eye
Refraction and Reflection	Ocular Anatomy	Anomalies of the Eye
Refractive Index	Ocular Physiology	Lenses
Ocular Anatomy	Ocular Anomalies	Neutralization
Eye Anomalies	Lenses	Lensometry
Basic Lenses	Lens Neutralization	Surfacing Lab Flow Chart
Transposition	Lensometry	Surfacing Prescription Lenses
Power Cross	Selection, Use, and Care of Ophthalmic Products	Fabrication of Rx Eyewear
Toric Diagram	Fitting Flowchart	Prescription Interpretation
Lensometer	Frame Construction	Refractive Index
Lens Neutralization	Special Fitting Devices	Transposition and Power Cross
Finishing Lab Flowchart	Positional Effective Power	Toric
Fabrication of Rx Eyewear	Sagitta Formula	Marked Power and True Power
Opticians Standards	Developing Professionalism in the Optical Industry	Front Surface/Back Surface Power
Basic Frames		Vertical Imbalance
Frames Repair		Radius of Curvature
Nominal Power		Sagitta
Focal Length		Snell's Law
Dioptric Power		Frames
Bicentric Grind		Understanding and Performing Business Related Aspects of the Optical Profession
<b>Total Hours -150</b>	<b>Total Hours - 150</b>	<b>Total Hours - 150</b>



## Optician Work Processes

<b>Performance Completions</b>		<b>Hours Required</b>
<b>A. Surfacing</b>		
1. Preparation for surfacing		40
2. Blocking		10
3. Roughing		25
4. Medium grinding		25
5. Fine grinding		25
6. Polishing		25
7. Removing the lens		10
8. Inspecting		40
<b>Subtotal</b>		<b>200</b>
<b>B. Bench Work</b>		
1. Lensometer: sphere, cylinder, axis, prism, neutralization, thickness, clocking lenses (safety checked by Rx), learn and apply safety policies, procedures and practices		500
2. Layout and marking up patterns (box system), cutting and cribbing, and alloy blocking		300
3. Automatic edging: rimless, bevel sizing		300
4. Hand stone beveling		150
5. Lens hardening procedures: air hardening, chemical hardening, and drop-ball testing		50
6. Mounting lenses: zyl mounting, wire mounting, drilling and mounting rimless		300
7. Soldering and frame repair: soldering wire frames, frame repair and maintenance, and adjustments		100
8. Final inspection: verification of Rx, inspection of frame and lenses		500
<b>Subtotal</b>		<b>2,200</b>
<b>C. Ophthalmic Fitting and Dispensing</b>		
Measuring for correct size, adjusting the frame, use of P.D. scope, distometer, P.D. Ruler, and hand tool		<b>3,600</b>
<b>Total number of hours required</b>		<b>6,000</b>

Make note of each different task you perform and record your work experiences in your log book. Enter the number of hours you spent performing a task in the column under the code letter for that task. There is a separate line to be used for each day of the month. Total each column and write these onto a new page at the beginning of each month. Call your VADOLI representative, 703-392-0900 ext. 102 or 131, if you have any questions.