Course Title: Optician Training (ABO)

Course Number: XHLT 3220

Course Description: Prepare for a rewarding career in the vision care industry and/or prepare for the American Board of Opticianry National Exam. The course will cover Anatomy and Physiology of the eye, basic optics, lens form analysis, lens materials coatings, multifocal designs, ophthalmic frames, instrumentation, and regulation standards. You will also learn basic sales and frame styling techniques, and insurance billing. Included will be externship sites where students can get hands on experience. An optician would be employed by private Ophthalmologists, Optometrists, Optical stores or Corporate Opticals such as Pearl Vision, Sears Opticals, Target Opticals, Lenscrafters, etc. A perfect career for the college student who needs to work odd hours. This course will include 60 hours of class time and 20 hours of clinical experience (to be arranged with instructor).

Hours: 80   Sessions: 30

Course Prerequisite(s): High School diploma or GED

Instructor Notes: 20-hours of clinical experience to be arranged with instructor

Student Learning Outcomes:
1. Learn basic anatomy and physiology of the eye
2. Learn lens form analysis, lens materials coatings, multifocal designs
3. Learn ophthalmic frames
4. Learn instrumentation
5. Learn regulation standards
6. Learn insurance billing
7. Learn basic sales and frame styling techniques

Textbook: (Contact bookstore for current edition and cost)
System for Ophthalmic Dispensing; Author: Clifford W. Brooks;
Publisher: Butterworth/Heineman;

Withdrawal Policy: See the current Career Skills Training catalog for the tuition refund policy.

Collin College Academic Policies: See the current Collin Student Handbook.

Americans with Disabilities Act: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-G200 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.
**Meeting Location:** Courtyard Center

**Attendance Policy:** Students must be in attendance for at least 90% in order to pass competencies.

**Topics covered:**

- **Session 1 & 2:** Anatomy of eye/conditions/disease
  - Review of workbook
  - Quiz

- **Session 3 & 4:** Basic Math
  - Basic Optics
  - Refraction
  - Lens design
  - Refractive index
  - Lens curvature
  - Prescription
  - Review of workbook
  - Quiz

- **Session 5 & 6:** Lens Form and analysis
  - Conversion
  - Focal length and vertex distance
  - Review of workbook
  - Quiz

- **Session 7 & 8:** Lens Materials and coatings

- **Session 9 & 10:** Ophthalmic Frames
  - Review of workbook
  - Quiz/Lenses
  - Designs
  - Materials
  - Treatment
  - Workbook/quiz

- **Session 11 & 12:** Instrumentation
  - Regulations and Standards

- **Session 13 & 14:** Lensometry

- **Session 15 & 16:** Lensometry Continued

- **Session 17 & 18:** PDF
  - Boxing System
  - Optical center heights
  - Decentration
  - Review of workbook
  - Quiz

- **Session 19 & 20:** Insurance
  - Review of workbook
  - Quiz

- **Session 21 & 22:** Bookkeeping
  - Regulations
  - Review of workbook
Quiz
Session 23 & 24: Frame Styling and selling
  Review of workbook
  Quiz
Session 25 & 26: Introduction to contact lenses
  Review of workbook
  Quiz
Session 27 & 28: Review
Session 29 & 30: Review and Exam

Sessions listed are a guideline to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, labs, and days.

**Method of Evaluation:** Students must achieve a minimum of 75% final average and must be in attendance 90% of the class time in order to pass competencies.