



Optical Dispensing Technician Program (ODT) Syllabus



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Introduction

Program Title: Optical Dispensing Technician Program (ODT)

Year and Semester: (one year; 6 blocks, 2 months/ block)

Course Days/ Times: Sunday-Thursday 8:00am - 5:00pm

Course Location: Accredited Training Centers

Vision

High quality and standardized ophthalmic dispensing for residents of Saudi Arabia.

Mission

To comply with the Kingdom's 2030 vision “to increase the qualified practitioners in different optical branches” by fully equip the Optical dispensers with up to date knowledge, skills, competences and attitude essential to provide safe, comprehensive and effective client care.

Overview

The Saudi Commission for Health Specialties (SCFHS) introduces the comprehensive Optical Dispensing Technician Program (ODT). The Optical Dispensing Technician Program that based on this curriculum is designed to provide students the necessary knowledge, skills, practical competencies and attitudes to get ready for employment after successful completion of the program.

Through theory and lab courses, students will gain a comprehensive education on how to fit an eye wear prescription and dispensing of eyeglass or other optical appliances. The training will also include selecting frames, taking facial measurements, choosing the suitable lens and frame design for the patient, and adjusting the frames to fit. In addition, students will be well trained in marketing, selling and manufacturing of different optical goods. The main reasons from establishing the comprehensive Optical Dispensing Technician Program is the high demand for this specialty in Saudi market specially with the continuous increasing in optical shops and eye centers that associated with increasing eye problems.



Program Description

The Optical Dispensing Technician Program offers an excellent entry point into one of the most interesting areas in the health care field. The program focuses on the development of practical competencies necessary for the delivery of optimal care in Optical dispensing. Graduates from the program would be expected to be encouraged to take an active role in a serving capacity within the community they work or reside.

Admission Criteria

Admission Criteria for applicants

1. Applicants must be a Saudi Citizen who graduated from College of Technology.
2. Provide proof of English exam, total IELTS Band not less than 4.5, or TOFEL IBT total score 35-45 minimum.
3. Passing the medical check.

Program Learning Outcomes

By the end of this program, the student will be able to:

1. State the essential facts, fundamentals, principles and theories relevant to optics and Optical lens dispensing.
2. Identify different designs and materials of spectacle lenses, spectacle frames, contact lenses, and low vision aids.
3. Explain the common types of refractive errors and their appropriate optical methods of correction.
4. Solve scientific and mathematical problems related to optics and Optical dispensing.
5. Apply the appropriate tools and instruments of Optical lens dispensing correctly and safely.
6. Perform spectacle lens surfacing, finishing and fitting.
7. Order, verify and adjust different eyewear.
8. Apply computer skills needed for advanced Optical dispensing technology.
9. Apply skills that related to marketing and selling of different optical goods.



10. Communicate effectively with other eye care providers as well as clients.
11. Comply with the legal, ethical and professional aspects of practice.
12. Advise on the use of different optical eyewear and special optical appliances.

Competencies

Optical Dispensing Technician Program was designed to qualify dispensers who able to:

1. Check glasses as being ordered.
2. Take the facial measurements concerning lenses and frames.
3. Provide recommendations concerning lens type and frame style.
4. Fabricate glasses and check as being ordered.
5. Give instructions on how to get the best result from eyewear.
6. Marketing spectacles, contact lenses, and other optical appliances.
7. Make adjustments and repair spectacles frames.
8. Manage the optical shops and optical labs.
9. Supply spectacles, contact lenses, and other optical appliances.
10. Repair and make spare parts for dispensing instruments.
11. Design and manufacture of spectacle lenses, frames, and other optical appliances.
12. Control the quality of lens surfacing or eyewear glazing.

Training Delivery Mode

Attending classes:

Students will attend classes to obtain the knowledge and understand the basic concepts, theories, and valuable information that will qualify them for further blocks. The venue is mostly at classrooms, and at spot field in some blocks. Lectures, discussion, and activities for each block will be prepared by each lecturer based on curriculum objectives and outlines.



Lab:

Apply what the student have been learned from theory to practice it in the lab. This will increase the student's skills and support their knowledge. The lab assistant will teach, guide and observe the students at the lab.

Internship:

Under supervision of expertise, the student will practice Optical dispensing at the optical shops (show rooms), optical dispensing laboratories at several optic shops collaborated in this program, and lenses factories such as Dahlawi and Essilor lens factories (The letters of agreement are attached).

Duration

The duration of ODT shall be 48 weeks (6 blocks + internship) composed of theoretical contents, practical exposures, and assessment examinations. The overall program is approximately 240 working days with a minimum of 3 hours per day which works approximately 990 working hours. These working hours are divided into 440 hours for theory and lectures, 190 hours for lab practice and tutorials, and 360 (6 hours/day) hours for internship.



Program

Block No	Block Name	Module	Theory	Hands-on practice	Duration
1	Introduction to ODT	General English	3	-	2 Weeks
		General medical terminology/ specialized medical terminology	3	-	1 Week
		Introduction to primary eye care/providers/ethics	3	-	1 Week
		Revision/ Exam	-	-	1 week
2	Fundamentals of ODT 1	Ocular anatomy & physiology	3	-	1 Week
		Physical optics/ applied optics	3	1	2 Weeks
		Basic optics/ geometrical optics	3	1	2 Weeks
		Revision/ Exam	-	-	1 Week
3	Fundamentals of ODT 2	Refractive errors/ optical correction of refractive errors	3	-	1 Week
		Optical lenses: specifications and measurements	3	1	2 Weeks
		Contact lenses / manufacturing/ brands	3	1	1 Week
		Low vision/ Low vision aids	3	1	1 Week
		Revision/ Exam	-	-	1 Weeks
4	Optical lens design and equipment	Plastic and glass technology	3	1	1 Week
		Ultraviolet light and lens coating	3	-	1 Week
		Introduction to Optical lens dispensing	3	1	2 Weeks
		Optical dispensing instruments & maintenance	3	1	1 Week
		Revision/ Exam	-	-	1 Week
5	Optical lens dispensing	Spectacle frames/ manufacturing/ selection/ customizing and repairing	3	1	2 Weeks
		Optical lens surfacing	3	1	1 Week
		Spectacle lens finishing/ fitting	3	1	2 Weeks
		Lenses and frame ordering and verification	3	-	1 Week
		Revision/ Exam	-	-	1 Week
6	Business Perspective of ODT	Advanced computer skills	1	2	1 Week
		Accounting	3	-	1Week
		Entrepreneurship Business	3	-	1 Week
		Marketing/ Communication	3	-	2 Weeks
		Revision/ Exam	-	-	1 Week
7		Internship	-	-	12Weeks
					48Weeks

Passing Requirements & Grading System (The evaluation should be done as follows)

The evaluation and assessment of students are carried out in accordance with the SCFHS training and examination rules and regulations. However, assessment is divided into four main categories:

1. Continuous evaluation
2. Block's examination
3. Internship assessment
4. Final examination



1. Continuous evaluation

Continuous evaluation will be conducted during the overall program aiming to monitor student's progression during different blocks and supporting those who are stumbled into the program.

An evaluation report is prepared for each student to be assessed during each block. The report will be discussed with the students individually to review their performance during block and before the block exam.

The report involves a detailed description of the student's performance in each course during the block. It includes the assessment of the following:

- *Attendance and punctuality:*
- *Knowledge:*

A minimum of two quizzes, two assignments and one end block exam will be carried out during the block period. Any assignment or course activity should be submitted on time. Late submission is not accepted.

- *Practical skills competences:*

Competency evaluation of the courses with practical or lab part is carried out based on continuous evaluation according to the evaluation rubric. Objective structured practical examination (OSPE) may also be included in the examinations.

2. Block's examination

At the end of each block, the students will be subjected to examination (at week 5, 11, 17, 23, 30 and 37). Students were not allowed to progress to the next scheduled block unless passing the existed block.

Grading system of courses:

- **Grading system of a theoretical course**
 - Attendance and punctuality 5%
 - Attitude 5%
 - Quizzes 20%
 - Assignments 20%
 - Written exam 50%



- **Grading system for courses with theoretical and practical components**
 - Attendance and punctuality 5%
 - Attitude 5%
 - Quizzes 10%
 - Assignments 10%
 - Group discussion 10%
 - Written exam 30%
 - Practical evaluation including OSPE (if applicable) 30%

Students who fail to achieve 60% as a total grade of any course are required to sit for a remediation exam. Students who fail to pass the remediation exam are required to repeat the block.

Block scoring:

- A: Excellent 100 – 90
- B: Very good 89 – 80
- C: Good 79 – 70
- D: Acceptable 69 – 60
- F: Fail 59 or below

3. Internship assessment

The internship evaluation will be divided based on the location of training. Students will be evaluated upon their performance in show-room, productivity in dispensing laboratory, and understanding the process of lens manufacturing.

During the internship, the students shall be required to complete an achievement record (file/ log book) that includes attendance of different internship fields, performance in productivity in dispensing laboratory, marketing and selling of different optical goods, and touching with different manufacture processes of lenses and frames.

- **Labs & Workshops**

A student must dispense 3 glasses per day (2 single lenses and 1 complicated lenses) and fit in different designs of frames. The total number of glasses to be fitted should be 72 glasses. The dispensing includes; lens marking, surfacing, finishing and adjusting to the frame.



- **Lens & Frame Factories**

The requested hours will be distributed to allow students to visit and work in all eyewear manufacturing divisions.

- **Optical Showrooms**

Students will be divided into small groups (3 to 4 trainees per group) and allocated in different optical shops. A student must complete the requested hours selling and marketing of different optical goods under the supervision of an optical shop mentor. By the end of this part of internship. The assigned mentor will give feedback on student's attendance, performance and attitudes through a well-prepared report.

Internship assessment

Evaluation elements	Percentage %
Show-room	35%
Dispensing Laboratory	35%
Lens manufactory	30%

Trainee who fail to achieve 60% out of the overall divisions of the internship will not be allowed to sit for the final examination.



4. Final examination

At the end of the overall program, students required to sit for the end-of-program examination that will be held by the SCFHS. The exam will cover all the theoretical and practical part of the program and the blueprint will be distributed as follows:

• Introduction to ODT	5%
• Fundamentals of ODT 1	10%
• Fundamentals of ODT 2	20%
• Optical lens design and equipment	25%
• Optical lens dispensing	25%
• Business perspective to ODT	15%

The total passing score of this exam is 60%. Student who fail the achieve the passing score should sit once again for the exam.

Student Responsibilities (Academic Integrity)

The student's eligibility for the SCFHS examination depends on:

- Passing all courses
- Mastering all skills
- Successful completion of the internship period
- Attendance: total absence percentage during the program is 10% or less



COURSE TEXTs/ READING MATERIALS AND RESOURCES:

1. Optical training: skills and procedures (1st edition) by Davey M Wootom. ButterworthHeinemann 2003.
2. Practical optical dispensing (1st edition) by Steven Daras and David A Wilson. Western Sydney Institute 2014
3. Optician training manual (2nd edition) by Davis S. McCleary. Santa Rosa Publishing 2018.
4. Other updated resources related to the course contain and materials.
5. Law and ethics for eye care professionals (1st edition) by Barbara K Pierscionek. Butterworth-Heinemann 2008.
6. Dictionary of optometry and visual science (7th edition) by Michel Mildot. Butterworth-Heinemann 2009.
7. Functional grammar and spoken and written communication in English by Bikram Das. Orient Black-Swan 2006.
8. Clinical anatomy and physiology of the visual system (3rd edition) by Lee Ann Remington & Denise Goodwin. Butterworth-Heinemann 2012.
9. Pure optics textbook (2nd edition) by Phernell Walker, American Association of Dispensing Ophthalmologists Inc 2006.
10. Management of refractive errors and prescription of spectacles (1st edition) by Yagesh Shukla. Jaypee Medical Ltd 2015.
11. Ophthalmic lenses and dispensing (3rd edition) by Mo Jalie. Elsevier 2008.
12. Clinical manual of contact lenses (4th edition) by Edward S Bennett and Vinita A Henry. Wolters Kluwer 2013.
13. Low vision manual (1st edition) by Jonathan Jackson and James Wolffsohn. Elsevier 2007.
14. System for ophthalmic dispensing (3rd edition) by Cliffard W. Brooks & Irvin M. Borish. Elsevier Health Sciences 2007.
15. Ophthalmic lenses and dispensing (3rd edition) by Mo Jalie. Elsevier 2008.
16. Spectacle lenses- theory and practice (1st edition) by Colin Fowler and Keziah L Petre. Butterworth-Heinemann 2001.
17. Essential for ophthalmic lens finishing (2nd edition) by Cliffard W. Brooks. Butterworth-Heinemann 2003.
18. Practical ophthalmic dispensing (3rd edition) by David Wilson & Steven Daras. Strathfield Australia 2014.
19. Marketing (2nd edition) by Paul Baines. Oxford University Press 2011.
20. Entrepreneurship: Starting and Operating A Small Business (4th edition) by Steve Mariotti and Caroline Glackin. Pearson 2015.
21. Basic Accounting Concepts, Principles, and Procedures (2nd edition) by Gregory Mostyn. Worthy and James Publishing 2017.

