



Australian Government

Assessment Requirements for HLTOPD004 Edge and fit ophthalmic appliances

Release: 1

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Modification History

Release	Comments
Release 1	<p>This version was released in <i>HLT Health Training Package release 2.0</i> and meets the requirements of the 2012 Standards for Training Packages.</p> <p>Significant changes to the elements and performance criteria. New evidence requirements for assessment, including volume and frequency requirements. Significant change to knowledge evidence.</p>

Performance Evidence

The candidate must show evidence of the ability to complete tasks outlined in elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be evidence that the candidate has:

- edged and fitted at least 10 pairs of spectacles to Australian standards, demonstrating the appropriate handling of the following types of frames and materials:
 - nylon (nyl-tag) rimless
 - metal full rim
 - plastic full rim
- automatically edged lenses using:
 - former cutting
 - blocking/chucking systems
 - machine operation
 - drilling
 - grooving
- hand edged lenses using:
 - hand bevelling techniques
 - safety chamfering
 - changeovers
- addressed common lens problems:
 - rectifying off-axis lenses
 - reducing unwanted vertical and/or horizontal prism

- • repaired and modified spectacle frames, including:
 - alignment
 - refitting nylon
 - re-pinning and riveting joints
 - sink joints
 - soldering metal frames
 - undertaking frame part replacements
 - undertake digital frame tracing
- used the features of a manual focimeter for the following tasks:
 - correct neutralisation
 - determination of additions
 - determination of axes
 - determination of centration
 - determination of powers
 - determination of prism
- accurately calculated minimum size uncut (MSU) using centration chart and by calculation to allow for pupillary distance (PD) and decentration for prism
- made templates and eliminated errors using:
 - hand techniques
 - machine techniques
- tinted lenses to match tint samples
- mounted lenses

Knowledge Evidence

The candidate must be able to demonstrate essential knowledge required to effectively complete tasks outlined in elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the work role. This includes knowledge of:

- Australian standards tolerances
- transmission and absorption data and its role in edging and fitting
- properties of lenses, including:
 - refractive index
 - abbe value
 - specific gravity
 - impact resistance
 - transmission and absorption
- features and use of impact resistant safety lenses including:
 - advantages and disadvantages
 - Australian standards for both general purpose and industrial use
 - evaluation of materials including glass, CR-39 (allyl diglycol carbonate), trivex, higher index plastics, polycarbonate and laminates

- impact resistance
- impact testing requirements, conditions and procedures
- principles and processing of chemical toughening
- problems and special lens requirements
- filter and tinted lens processes including:
 - Australian standards requirements
 - plastic lens tinting including dyes and tint types, equipment, preparation, problems and solutions
 - transmission testing including equipment and instrumentation, equipment limitations and Australian standards
- vacuum coatings and their use, including:
 - absorptive (tinted) coatings
 - handling, cleaning and care of coatings
 - manufacturing processes
 - multiple layer antireflection (AR) coatings
 - single AR coating
- the effects of surface reflections and ghost images on lenses
- edging and fitting glazing techniques
- frame measurement systems including boxing and datum
- features of different frames and rims and how to work with them:
 - different frame materials and their scope of use
 - techniques for working with frames and rims heating, manipulation, adjusting, handling and repair
 - rimless types
 - drilled rimless frames
 - standard nylon rims
- nasal cut and nasal add techniques
- features and functions of edging and fitting equipment:
 - automatic edgers
 - calibration and checking tools
 - focimeters (lensmeters)
 - frame alignment tools
 - hand edging equipment
 - marking/centration devices
 - edging wheel designs and characteristics
 - machine designs
- current and emerging software applications used in the optical dispensing environment

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - automatic edgers
 - hand edgers
 - blockers
 - markers
 - focimeters (lensmeters)
 - nylon groover
 - drill
 - clavulus
 - parallel rules
 - millimetre (PD) rules
 - frame tools
 - frames
 - lenses
 - adhesive and protection pads/films
 - formers
 - frame heater
 - soldering unit
 - tint bath
 - dyes
- modelling of industry operating conditions, including:
 - integration of time constraints
 - integration of problem solving activities

Assessors must satisfy the Standards for Registered Training Organisations (RTOs) 2015/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ced1390f-48d9-4ab0-bd50-b015e5485705>