

Australian Government

DEFOH009B Work safely with lasers

Release 2



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Release	TP Version	Comments		
2	DEF12V2	Removal of repetitive Performance Criteria Statement Application added Minor change to Unit Descriptor and Range Statement Changes to Evidence Guide		
1	DEF12V1	Primary release.		

Modification History

Unit Descriptor

This unit covers the competency required to work safely in an environment where lasers may be employed.

This unit does not include the operation of laser equipment.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication. In a Defence context, this means that there is no civilian need to hold this unit in order to meet licensing, legislative, regulatory or certification requirements.

Application of the Unit

This unit was developed for Defence workers involved in working with lasers as a workplace responsibility, but is applicable to all individuals who work in this field.

Typically, these individuals must demonstrate the ability to work independently or as part of a team under indirect supervision. They must be able to use discretion and judgement and take responsibility for the quality of their outputs.

All activities must be carried out in accordance with relevant legislation, organisational policies and procedures.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit	Performance Criteria describe the required performance needed to demonstrate achievement of the element.
of Competency.	Where <i>bold italicised</i> text is used, further information is detailed in the Required Skills and Knowledge and/or
	the Range Statement. Assessment of performance is to
	be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT		PERFORMANCE CRITERIA
1.	Identify laser safety issues	1.1 Potential laser <i>source</i> , is identified in accordance with relevant organisational policy and procedures.
		1.2 <i>Type</i> and Australian Standard class is identified in accordance with the relevant organisational policy and procedures.
		1.3 Dangers/risks associated with lasers are identified.
		1.4 laser safety controls are applied.
		1.5 <i>Laser warning signage</i> is identified and correctly interpreted.
	Apply safe work	2.1 Lasers deployed in the workplace are identified.
	practices	2.2 <i>Laser exposure situations</i> are identified and interpreted.
		2.3 Appropriate <i>personal protective equipment</i> (PPE) is identified and applied.
		2.4 Other control measures are identified and adhered to.
	Report on workplace	3.1 Incident reporting procedures are applied.
	laser incidents	3.2 Health surveillance requirements, including eye testing, are complied with

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- access, read, interpret and apply information on laser operations
- identify laser sources

Required Knowledge

- work health and safety (WHS) requirements relevant to laser emissions in the workplace
- · organisational policy and standards relevant to laser operations emissions

Evidence Guide

Critical aspects for assessment and evidence required to demonstrate competency in this unit Assessment must confirm the ability:

- identify laser safety issues, apply safe work practices and monitor and report on workplace incidents.
- demonstrate knowledge of relevant work health and safety legislative frameworks
- identify inspection tools and methods appropriate to the workplace
- demonstrate the application of the principles and practices of work health and safety when working with lasers
- identify intervention points for advice to assist in work and to guide problem solving

Consistency in performance

Evidence for competency in this unit must be gathered over time and across a range of workplace or simulated situations.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace or under conditions that accurately simulate a realistic workplace in accordance with all relevant legislation and organisation requirements.

Evidence should be gathered while observing the individual working with lasers in an actual or simulated workplace. A record of all relevant reports, interviews and tests should also be submitted as evidence for assessment.

Specific resources for assessment

There are no special resource implications for this unit.

Range Statement

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. *Bold italicised* wording in the Performance Criteria is detailed below.

Potential laser <i>source</i> may include:	•	Bar-code scanners
include:	•	Medical/dental instruments
	•	Range finders (as found on military weapons and

	survey equipment)
Laser <i>type</i> may include:	Liquid
Laser <i>type</i> may mendee.	• Gas
	Semiconductor
	Solid
Dangers/risks associated with lasers may include:	 Awareness of the effect of weather and/or reflecting surfaces on differing types of laser transmission Extended source viewing Irradiance and radiant exposure
	 Point source and intra-beam viewing
	 Specular reflections
	 Use of magnifying optics
<i>Laser safety controls</i> may include:	Establishment of nominal ocular hazard areas (NOHA)
	• Exclusion zone/specification of laser hazard areas
	• Maintenance of a laser register
	• Protective eye wear specified in accordance with perceived laser threat
	• Use of interlocks to prevent inadvertent discharge of laser when safety features are not in place
	• Use of keys to activate laser
	• Warnings to avoid observation of source
<i>Laser warning signage</i> may include:	 Labelling/signage on equipment Notification of responsibilities and provision of safety information Warning signage/notices surrounding exclusion zone or work areas where lasers may be operating
<i>Laser exposure situations</i> may include:	 Laboratories, medical and dental clinics where laser equipment is in use Maintenance workshops Military training and field operations where laser devices are in use
Personal protective equipment may include:	Protective clothingSpecific eye protection goggles
<i>Incident reporting</i> may include:	 Affected person reporting Laser operator reports Organisational reporting procedures

Unit Sector(s)

Not applicable.