



**Australian Government**

# **AURVTW018 Carry out oxyacetylene welding, thermal heating and cutting**

**Release: 1**

# AURVTW018 Carry out oxyacetylene welding, thermal heating and cutting

## Modification History

Release	Comment
Release 1	New unit of competency.

## Application

This unit describes the skills and knowledge required to carry out basic welding, thermal heating and cutting operations. It involves preparing for the task, setting up and operating an oxyacetylene plant, setting gas pressures, identifying and adjusting flame appropriate for welding, thermal heating or cutting requirements, selecting and using suitable personal protective equipment (PPE), and completing workplace processes and documentation.

It applies to those working within the automotive service and repair industry.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

## Unit Sector

Technical - Welding, Grinding, Machining and Soldering

## Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for oxyacetylene welding, thermal heating and cutting	1.1 Identify job requirements from workplace instruction 1.2 Obtain and interpret technical information, workplace procedures, national standards and codes of practice, original equipment manufacturer (OEM) or authorised agency standards relating to oxyacetylene welding, thermal heating and cutting 1.3 Identify hazards and environmental issues associated with the work, assess potential risks and implement control measures from workplace health and safety requirements 1.4 Identify tools, equipment and materials required for the job and examine for serviceability 1.5 Plan welding, thermal heating or cutting activity to minimise waste and use time efficiently according to workplace

	expectations
2. Weld, thermal heat and cut using oxyacetylene plant	<p>2.1 Carry out oxyacetylene gas working pressure adjustment and flame identification and setting according to workplace procedures, workplace health and safety and environmental requirements</p> <p>2.2 Carry out welding, thermal heating, and cutting activity according to national standards and codes of practice, OEM or authorised agency standards, workplace procedures, workplace health and safety and environmental requirements</p>
3. Complete work processes	<p>3.1 Carry out final inspection to ensure work meets workplace expectations and component is ready for use</p> <p>3.2 Clear work area and dispose of or recycle materials according to workplace procedures</p> <p>3.3 Examine and store tools and equipment, ensuring faulty equipment is reported according to workplace procedures</p> <p>3.4 Complete workplace documentation according to workplace procedures</p>

## Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	<ul style="list-style-type: none"> <li>locate relevant sources of oxyacetylene welding, thermal heating and cutting information efficiently</li> </ul>
Reading skills to:	<ul style="list-style-type: none"> <li>read and interpret information and ideas from workplace procedures, documentation, legislation and regulations on safe operating procedures for oxyacetylene welding, thermal heating and cutting</li> </ul>
Writing skills to:	<ul style="list-style-type: none"> <li>legibly and accurately fill out workplace documentation</li> </ul>
Oral communication skills to:	<ul style="list-style-type: none"> <li>clarify instructions and procedures</li> <li>clearly report quality issues and job outcomes</li> </ul>
Numeracy skills to:	<ul style="list-style-type: none"> <li>identify and set oxyacetylene gas working pressure and gauges</li> </ul>
Planning and organising skills to:	<ul style="list-style-type: none"> <li>plan own work requirements</li> <li>prioritise actions to achieve required outcomes</li> <li>ensure tasks are completed within workplace timeframes</li> </ul>
Technology skills to:	<ul style="list-style-type: none"> <li>use specialist oxyacetylene equipment</li> </ul>

## Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AURVTW018 Carry out oxyacetylene welding, thermal heating and cutting (Release 1)	AURVTW008 Carry out oxyacetylene welding, thermal heating and cutting (Release 1)	<p>Wording changes to ensure compliance with Standards for Training Packages.</p> <p>Removal of references to OHS requirements.</p> <p>Removal of range of conditions.</p> <p>Addition of minor elements to knowledge evidence and assessment conditions.</p> <p>Addition of Australian welding standard AS1554 to knowledge evidence and assessment conditions.</p> <p>Addition of assessor requirements.</p>	Equivalent

## Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>