



Australian Government

CPCPCM2053 Weld using metal arc welding equipment

Release: 2

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Modification History

- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
Performance Evidence formatted for clarity.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent CPCPCM2053A Weld using manual metal arc welding equipment. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to weld metals associated with the fabrication and installation of plumbing components, using manual metal arc welding equipment.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

Pre-requisite Unit

CPCPCM2043 Carry out WHS requirements

Unit Sector

Plumbing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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|----------------------------------|---|
| 1 Identify welding requirements. | 1.1 Access, read and determine welding requirements from relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements. |
| | 1.2 Identify and apply workplace work health and safety (WHS) and environmental requirements associated with |

- manual metal arc welding tasks.
- 1.3 Select materials to be welded according to workplace procedures.
- 2 Prepare for work.
 - 2.1 Create a materials list and collect materials.
 - 2.2 Select and check the serviceability of appropriate tools and equipment, including personal protective equipment (PPE).
 - 2.3 Prepare work area to support efficient performance of metal arc welding.
- 3 Prepare materials and equipment for welding.
 - 3.1 Clean and prepare materials for welding.
 - 3.2 Identify tools and techniques appropriate to the preparation of the materials to be welded.
 - 3.3 Set up welding equipment and select correct electrodes according to workplace procedures and job specifications.
- 4 Weld items.
 - 4.1 Perform weld of materials according to relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements using safe welding practices.
 - 4.2 Clean material and prepare for welding in accordance with workplace procedures.
 - 4.3 Visually inspect weld to ensure weld is fit for purpose.
- 5 Clean up.
 - 5.1 Clear the work area, and dispose of, reuse or recycle materials in accordance with state and territory legislation and workplace policies and procedures.
 - 5.2 Clean tools and equipment, check for serviceability and report any damage, and store and secure.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent CPCPCM2053A Weld using manual metal arc welding equipment.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>