



Australian Government

Assessment Requirements for CPCPMS3031 Fabricate and install steel pressure piping

Release: 1

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Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCPMS3031A Fabricate and install steel pressure piping. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria for this unit by:

- applying pipe cutting and welding skills by using oxy-acetylene and arc welding equipment for piping up to DN50 and must include:
 - butt welding a pipe joint in DN40 piping in the fixed horizontal position
 - welding DN40 and 50 mild steel branch joints
 - constructing a DN80 header with DN20, 40 and 50 branch joints using the oxy-acetylene method
 - welding 50 mm and 80 mm flanges to mild steel pipe
 - welding blank ends into DN80 mild steel pipe
- fabricating, installing and testing a DN40 steel pipeline from a supply point to an outlet, incorporating two changes of direction with one position butt welded with oxy welding, plus an arc welded flange incorporating a branch for testing purposes
- testing completed task to ensure required pressure and the soundness of all joints within the system.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- the characteristics and the application of approved materials and components for the fabrication and installation of pressure piping
- processes, procedures and techniques of:
 - installation of steel pressure piping
 - calculating material quantities
- pressure, flow rates, temperature requirements and properties of conveyed materials including:
 - cutting and welding gases
 - mechanical joint systems and fittings with variable diameters up to DN100

- steel pipes
- threaded pipe fittings
- weldable pipe fittings
- how to access relevant information, including codes and standards
- tools, materials and equipment used to fabricate and install steel pressure piping
- work health and safety (WHS) requirements to fabricate and install steel pressure piping.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

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>