



Australian Government

Assessment Requirements for CPCCSF2003 Cut and bend materials using oxy-LPG equipment

Release: 1

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Modification History

Release 1.

Supersedes and equivalent to CPCCSF2003A Cut and bend materials using oxy-LPG equipment.

The unit of competency was updated to the Standards for Training Packages 2012.

This version first released with CPC Construction, Plumbing and Services Training Package Version 4.0.

Performance Evidence

To demonstrate competency in this unit, a person must use both oxy-acetylene and LPG systems to:

- cut to specification five bars with different sizes up to and including 36 mm
- heat and bend a minimum of three bars to specification including at least one 36 mm bar.

In doing this, the person must meet the performance criteria for this unit.

Knowledge Evidence

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

- jurisdictional work health and safety (WHS) and environmental legislation and regulations relating to cutting, heating and bending material using oxy-LPG equipment, including:
 - job safety analyses (JSAs)
 - safe work method statements (SWMSs)
 - safety data sheets (SDSs)
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades
 - personal protective equipment (PPE)
 - environmental and work site safety plans
- requirements of Australian Standards and the National Construction Code (NCC) relating to cutting, heating and bending material using oxy-LPG equipment
- workplace requirements for all aspects of cutting, heating and bending material using oxy-LPG equipment, including interpreting work orders and reporting problems
- interpretation of plans, drawings and specifications
- processes for the calculation of material requirements from specifications
- scope of work for cutting, heating and bending material using oxy-LPG equipment, including:
 - cutting up of waste for salvage

- cutting reinforcement steel
- cutting holes in plate
- bending reinforcement steel
- types and properties of materials, including:
 - cutting consumables
 - deformed bars
 - mesh sheets of deformed bars
 - mesh sheets of plain bars
 - plain rods
- oxy acetylene and LPG heating and cutting equipment types, characteristics, uses and limitations and set-up and operating techniques, including for:
 - cylinders
 - regulators
 - gas tubing
 - cutting blowpipes
 - flint lighters
 - measuring tapes and rules
 - clamps and support stands
- types, characteristics, uses and limitations of tools, equipment and materials required for cutting, heating and bending material using oxy-LPG equipment, including:
 - safe operating procedures
 - operational, maintenance and basic diagnostic procedures
 - workplace and equipment safety requirements
- techniques for cutting, heating and bending material using oxy-LPG equipment
- quality requirements relevant to cutting, heating and bending material using oxy-LPG equipment
- processes, materials and equipment for cutting, heating and bending material using oxy-LPG equipment
- requirements for cleaning up work area and tools, materials storage and environmentally friendly waste management.

Assessment Conditions

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

Assessment of performance must be undertaken in the workplace or in a simulated workplace environment. Tasks are to be performed to the level of proficiency and within the time limits expected in a workplace.

Assessors are responsible for ensuring that the person demonstrating competency has access to:

- work sites and specifications for cutting, heating and bending tasks

- appropriate documents, materials, tools, equipment and PPE currently used in industry
- requirements of appropriate sections of legislation and regulations
- relevant workplace policies and procedures.

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>