

CPCCE3020 Select and use tools and equipment for hot work in the demolition industry

Application

This unit of competency specifies the skills and knowledge required to cut materials using cutting processes that create a heat source that could cause an ignition. The unit covers the safe operation and maintenance of tools and equipment for hazardous demolition hot work.

It includes the safe on-site operation and maintenance of tools and equipment used for hazardous demolition hot work.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of unit *CPCCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

Hot work permits and licenses for the operation of specialised hot-work equipment are required in different states and territories.

Licensing, legislative, regulatory or certification requirements apply to demolition work in different states and territories. Candidates are advised to consult with the relevant regulatory authorities.

Prerequisite Unit

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

Elements and Performance Criteria

Elements	Performance criteria
1. Plan and prepare for work.	<p>1.1 Obtain, confirm and apply work instructions to planning and preparation, using required information, and in consultation with colleagues or supervisors.</p> <p>1.2 Complete tasks according to regulatory, legislative and workplace policies and requirements.</p> <p>1.3 Identify and apply site work health and safety (WHS) requirements to task planning according to safety.</p> <p>1.4 Identify, select and fit personal protective equipment (PPE).</p>

Elements	Performance criteria
	<p>1.5 Conduct worksite inspection and assess hazards associated with individual demolition hot work tasks immediately prior to commencing work.</p> <p>1.6 Identify and apply environmental requirements according to environmental plans.</p> <p>1.7 Obtain and check permits for hot work and licences for specialised equipment before starting work.</p>
<p>2. Select tools and equipment and prepare for use.</p>	<p>2.1 Select tools and equipment for different hot work tasks according to manufacturer recommendations.</p> <p>2.2 Complete pre-operational checks and maintenance requirements according to manufacturer recommendations, and rectify and report faults.</p> <p>2.3 Identify and apply specific WHS requirements and safe methods of operation of tools and equipment for hot work from manufacturer instructions.</p>
<p>3. Complete cutting, grinding and hot work.</p>	<p>3.1 Obtain confirmation from supervisor and regulatory authorities that existing services have been disconnected.</p> <p>3.2 Amend safe demolition work method statement if required and confirm with colleagues or supervisor.</p> <p>3.3 Prepare work area for hot work according to site safety requirements.</p> <p>3.4 Use tools and equipment for their intended purpose in hot work demolition tasks.</p> <p>3.5 Communicate work progress and hazards or issues arising during work tasks with work team.</p> <p>3.6 Place tools and equipment in safe locations when not in immediate use.</p>
<p>4. Clean up work area.</p>	<p>4.1 Clear work area and sort materials for reuse or recycling, and remove or dispose of waste using safe manual-handling techniques.</p> <p>4.2 Clean, check, maintain and store tools and equipment according to manufacturer recommendations.</p>

Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria:

- learning skills to:
 - recognise signs indicating undiscovered hazards on a demolition site, for example presence of residual fuel
 - respond to change, such as differences in current worksite environmental and sustainability requirements
- numeracy skills to:
 - check levels of lubricants in tools
 - perform measurements and calculations associated with work, such as when determining specified length of wall to be removed
- writing skills to:
 - complete pre-operational checklists and simple equipment fault forms.

Unit Mapping Information

Supersedes and is equivalent to CPCCE3020A Select and use tools and equipment for hot work in the demolition industry.

Links

Companion Volumes to this Training Package are available at the VETNet website

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCCE3020

Select and use tools and equipment for hot work in the demolition industry

Performance Evidence

To demonstrate competency in this unit, a candidate must select and use tools and equipment for hot work in the demolition industry. The candidate must perform the following:

- set up and use oxy-fuel gas cutting equipment to cut through one 200 mm x 200 mm structural steel element
- set up and use a demolition saw to cut through:
 - a one metre length of 50 mm concrete ground slab
 - an 800 mm width of metal cladding
- set up and use an angle grinder to cut through an 800 mm width of metal cladding
- use a lower explosive level (LEL) unit to identify LEL at the locations for two different hot work tasks.

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

Knowledge Evidence

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

- the compliance requirements of the relevant Australian Standards, Building Code of Australia (BCA), model codes of practice, environmental and work health and safety (WHS) legislation
- general construction terminology
- hazards that may exist or arise on demolition sites, especially those associated with hot work:
 - build-up of combustible materials
 - chemical compounds
 - drums
 - dust
 - gas
 - residual fuels, for example, in pipework to be cut
 - sparks
 - storage tanks
- procedures for:
 - environmentally sound waste management
 - managing risks and hazards on demolition sites
 - sorting and storing reusable and recyclable materials
- types of information required to plan and prepare for safe and effective completion of demolition tasks
- types of tools and equipment used for cutting, grinding and hot work in the demolition industry:
 - applications of each type of tool or piece of equipment

- maintenance requirements
- safe methods of operation for different cutting, grinding or hot work tasks.

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.

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

- worksite/s and specifications for selecting and using tools and equipment for demolition hot work
- appropriate documents, materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- requirements of workplace policies, procedures and demolition plans.

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