



Australian Government

Department of Education, Employment and Workplace Relations

PMC552090B Use and maintain tools and equipment for refractory operations

Revision Number: 1

PMC552090B Use and maintain tools and equipment for refractory operations

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit of competency covers the maintenance and use of common tools and equipment used for refractory operations. It involves checking that they are in a usable condition and taking appropriate action if they are not.
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Application of the Unit

Application of the unit	This unit of competency applies to operators working in the refractory sector who use tools and equipment for the manufacture and/or installation of refractory materials. This could apply to tools and equipment used in a manufacturing facility or for the on-site installation of refractories and includes the cleaning of the tools and equipment and inspection for wear and tear or damage. This competency is performed by all operators working with tools and equipment and may be undertaken as part of working in a team environment.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Select and set up tools and equipment	1.1. Check the information about the required resources is accurate and available for use according to work practices 1.2. Identify incorrect or incomplete information and take the necessary corrective action 1.3. Select and set up the required resources to conform with the information and, where they are unsuitable, take the necessary corrective action
2. Use tools and equipment	2.1. Use appropriate tools and equipment to procedures 2.2. Inspect tools/equipment for wear/damage and rectify or report as appropriate 2.3. Clean tool/equipment and return to correct location after use
3. Contribute to the provision of a safe work environment	3.1. Identify hazards in work area particularly from blending/mixing 3.2. Assess the risks arising from those hazards 3.3. Implement measures to control those risks in line with procedures and duty of care
4. Control hazards	4.1. Identify hazards from the job to be done 4.2. Identify other hazards in the work area 4.3. Assess the risks arising from those hazards 4.4. Implement measures to control those risks in line with procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

Required skills include:

- adjusting/correcting/responding to procedures
- identifying and responding to problems
- using tools and equipment correctly
- working in a team or individually as required
- inspection of tools and equipment
- cleaning of tools and equipment
- reading and numeracy to interpret workplace documents and technical information

Required knowledge

Required knowledge includes:

- the variety of equipment used
- equipment application and its maintenance procedures
- procedures related to this competency
- typical problems with equipment applicable to this competency
- procedures for reporting or dealing with typical equipment problems
- materials sources
- materials types/categorisation
- methods of production
- familiarity with installation techniques
- familiarity with principles of selection
- familiarity with variety of applications

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

The unit will be assessed in as holistic a manner as is practical and may be integrated with the assessment of other relevant units of competency.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Competence must be demonstrated in the ability to recognise situations requiring action and then in implementing appropriate corrective action. Consistent performance should be demonstrated. In particular look to see that:

- situations which are out of the normal, unusual/unexpected signs of problems or potential problems with the equipment/processes are recognised
- appropriate action is taken in a timely manner
- hazards are recognised and appropriate action is taken to control risks arising from such hazards.

Context of and specific resources for assessment

Assessment will require access to an operating plant over an extended period of time, or a suitable method of gathering evidence of operating ability over a range of situations.

Assessment will occur over a range of situations which will include disruptions to normal, smooth operation. Simulation or case studies/scenarios may be required to allow for timely assessment of parts of this unit of competency. Simulation should be based on the actual plant and will include 'walk-throughs' of the relevant competency components. A bank of scenarios/case studies/what ifs and questions will be required to probe the reasoning behind observable actions.

Method of assessment

It may be appropriate to assess this unit concurrently with relevant teamwork and communication units. It may be appropriate to assess this unit concurrently with:

- MSAPMOHS200A Work safely.

Guidance information for assessment

Assessment processes and techniques must be culturally appropriate and appropriate to the language and literacy capacity of the candidate and the work being performed.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Procedures	All operations are performed in accordance with standard procedures and work instructions
Information	Information to be used includes: • organisational requirements • oral and written instructions • manufacturer's technical information
Corrective action	Corrective action to be taken includes: • correcting within your own authority • reporting to the person in charge • complying with company procedures
Work practices	Work practices include: • setting up, maintaining and using tools and equipment • interpreting information • identifying, selecting and setting up tools and equipment • identifying hazards • working as an individual organising your own work • working as part of a team
Tools and equipment	Tools and equipment include: • manual tools and equipment • powered tools and equipment
Occupational health and safety (OHS)	All operations are subject to stringent OHS requirements and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and OHS requirements, the OHS requirements take precedence.

RANGE STATEMENT**Responding to problems**

The responding to problems or non-conforming situations is restricted to responding in a routine, predetermined manner as specified in the relevant procedures. All operations are performed to procedures.

Unit Sector(s)**Unit sector**

Operational/technical

Competency field**Competency field****Co-requisite units**

Co-requisite units		