



Australian Government

Department of Education, Employment and Workplace Relations

CPPWMT4037A Conduct minor maintenance and repairs on waste processing plant and equipment

Release: 1

CPPWMT4037A Conduct minor maintenance and repairs on waste processing plant and equipment

Modification History

Revised unit

Unit updated and equivalent to PRMWM37B Conduct minor maintenance and repairs on waste processing plant/equipment

Slight change of title

Unit Descriptor

This unit of competency specifies the outcomes required to conduct minor maintenance and repairs on waste processing plant and equipment. It requires the ability to analyse practices and undertake practical activity while working effectively with clients.

Application of the Unit

This unit of competency supports individuals with supervisory responsibilities for conducting maintenance on waste processing plant and equipment, and includes recognising the need for expert advice.

Licensing/Regulatory Information

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

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.

Elements and Performance Criteria

1	Organise for maintenance.	1.1	Plant <i>maintenance schedule</i> is reviewed to determine maintenance requirements.
		1.2	<i>Maintenance</i> is scheduled to minimise disruption to organisational operations.
		1.3	Tools and materials required for maintenance are identified and obtained.
		1.4	Lock-out or isolation procedures are followed prior to conducting plant maintenance according to manufacturer specifications, <i>organisational requirements</i> and <i>legislation and codes</i> .
		1.5	<i>Supervisory processes</i> and checks and measures are implemented to ensure work is completed within <i>time available</i> .
2	Carry out housekeeping, minor maintenance and repairs.	2.1	<i>Housekeeping</i> is conducted to ensure cleanliness of plant.
		2.2	Routine maintenance is conducted safely and efficiently according to manufacturer specifications and organisational requirements.
		2.3	Tools for maintenance and repairs are selected and used according to manufacturer specifications.
		2.4	Visual and operational <i>checks</i> are performed on waste processing <i>plant, emergency and personal protective equipment</i> (PPE) and <i>materials</i> to determine level of operational functioning.
		2.5	Lubrication is applied to moving parts according to manufacturer specifications.

- 2.6 **Minor components and accessories** are adjusted and replaced according to manufacturer specifications and organisational requirements.
 - 2.7 Worn parts are identified, changed or reported to relevant personnel according to organisational requirements.
 - 2.8 Major faults and defects are identified and scheduled for repair according to organisational requirements.
- 3 Record plant maintenance and repairs.
 - 3.1 Record of housekeeping, maintenance and repairs is maintained according to manufacturer specifications and organisational requirements.
 - 3.2 Major faults and defects are reported and **documentation** is maintained according to manufacturer specifications and organisational requirements.

Required Skills and Knowledge

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

Required skills

- interpersonal skills to:
 - work in a team environment
 - lead teams and provide guidance
 - demonstrate functions associated with equipment processes
- technical skills to facilitate:
 - plant and equipment operation
 - basic cleaning and maintenance of plant and equipment
 - selection of plant and equipment
 - housekeeping
- self-management skills to:
 - conduct work practices safely and efficiently
 - identify hazards and risks
 - organise work methodically
 - use emergency and PPE
 - execute routine tasks
 - make decisions regarding maintenance and repairs
 - use information technology to complete tasks
- reading skills to interpret:
 - job sheets
 - work requirements and material safety data sheets (MSDS)
- oral communication skills to:
 - ask questions
 - listen actively
 - consult
 - provide information
- planning and problem-solving skills to:
 - carry out minor repairs and maintenance
 - organise routine maintenance tasks
- written communication skills for:
 - record keeping
 - documentation

Required knowledge

- occupational health and safety (OHS) requirements relating to OHS hierarchy of control
- plant, equipment and materials to facilitate:

- operation of plant and equipment
- cleaning and maintenance of plant, equipment and materials
- plant shut-down, lock-out and isolation procedures
- potential hazards and risks relating to:
 - plant and equipment
 - emergency response procedures
- principles of supervision, including:
 - leading by example
 - providing or organising training
 - establishing work plans
 - monitoring work activity and team outputs
 - establishing effective communication channels
- regulations and standards affecting:
 - establishing plant
 - plant, equipment and materials used in the waste management industry
- waste management provision, including:
 - client requirements
 - organisational requirements
 - reporting requirements
 - industry standards
 - duty of care in relation to plant, equipment and materials used in the waste management industry
 - waste processing plant types
 - standard operation of waste processing plant

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	This unit of competency could be assessed by observation of practical demonstration in the workplace or in a simulated environment conducting minor maintenance and repairs on waste processing plant and equipment.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	A person who demonstrates competency in this unit must be able to provide evidence of the required skills and knowledge specified in this unit. In particular the person should demonstrate the ability to: • organise and conduct maintenance and repairs of waste processing plant and equipment • assess performance characteristics of plant, equipment and materials • secure availability of plant, equipment and materials.
Context of and specific resources for assessment	Assessment of essential underpinning knowledge may be conducted in an off-site context. It is to comply with relevant regulatory or Australian standards' requirements. Resource implications for assessment include: • work plans and approved specifications • forms and procedures manuals • reports.
Method of assessment	Minor maintenance and repairs on waste processing plant and equipment must be undertaken in line with industry expectations in the particular client environment. If the environment is narrowly defined or is not representative of industry needs, it may be necessary to refer to portfolio case studies of a variety of maintenance and repair requirements to assess competency in minor maintenance and repairs. Assessment methods must: • satisfy the endorsed Assessment Guidelines of the Property Services Training Package • include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application • reinforce the integration of employability skills with workplace tasks and job roles • confirm that competency is verified and able to be transferred to other circumstances and environments.

Guidance information for assessment	Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support. Assessment processes and techniques should as far as is practical take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed. This unit could be assessed on its own or in combination with other units of competency relevant to the job function, for example: • CPPCMN3003A Contribute to workplace safety arrangements • CPPWMT3016A Operate waste processing plant • CPPWMT4027A Select and obtain waste management plant, equipment and materials.
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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.

<i>Maintenance schedule</i> may include:	• instructions • nature and scope of task • OHS requirements • resource allocations and requirements • tools and materials to be used • equipment types.
<i>Maintenance</i> will typically include:	• adjusting • cleaning • lubricating or greasing, including pre-start checks, such as: • compliance with MSDS • OHS compliance • operational checks • start-up • visual • repairs • replacing parts • servicing faults.
<i>Organisational requirements</i> may include information found in:	• briefing papers • job sheets • letters • memos • operations manuals • verbal or written instructions • work procedures.
<i>Legislation and codes</i> may include:	• codes, including: • Australian Code for the Transport of Dangerous Goods by Road and Rail • industry • commonwealth, state and territory legislation, including: • anti-discrimination • environmental protection • equal employment opportunity • freedom of information • industrial

	• OHS • trade practices • road laws.
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Supervisory processes may include:	• delegating • implementing • monitoring • overseeing • planning • reviewing • targeting practices to meet deadlines.
Time available may include considering:	• client instructions • contingencies • past experiences • skills and experience of operatives • location of plant and equipment • methods to be employed • resources and equipment to be used.
Housekeeping may include:	• high-pressure water or air-hosing • shovelling • sweeping out • using decontamination products • vacuuming.
Checks may include:	• compliance with legislation, OHS and environmental policy • downtime and life expectancy • fitness for purpose • maintenance and repair costs • performance and safety.
Plant may include:	• autoclaves • balers • bobcats • boilers • bunded areas • centrifuges • chippers • combustion • compactors • composters • conveyors • crushers • dozers and associated earthmoving equipment • forklifts • hammer mills • incinerators • loaders:

	• front-end • rear-end • tailgate • materials recovery facility • microwaves • pipes • processing plants, including size-reduction processing plant • safety structures and controls • separators • shredders • sorters • storage tanks • tankers • transfer station • treatment tanks • trucks: • articulated • open-bodied • rigid • tub grinders • treatment plants, including: • biological treatment plant • chemical treatment plant • liquid waste treatment plant • microwave treatment plant • physical treatment plant.
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Emergency and personal protective equipment must include:	- communications equipment - eye protection, such as goggles and protective glasses - eyewash kit - fire extinguishers - first aid kit - footwear - gloves - overalls and protective clothing.
Emergency and personal protective equipment could also include:	- breathing apparatus - emergency procedure guides - face shields or masks - hard hats - hearing protection - MSDS - spill kit.
Personal protective equipment must be:	- cleaned and fitted according to organisational requirements, manufacturer specifications and OHS requirements - worn when required according to organisational requirements - stored according to organisational requirements.
Equipment may include:	- barriers and warning signs - communications equipment - compactors - conveyors - generators - hoses - lifting equipment - loadshifting equipment - PPE - pumps - recording equipment - sampling equipment - scales - skips - sorting tables - storage containers - tools - trailers - trolleys - vacuums - waste containers.
Materials may include:	cleaning chemicals

	• cleaning rags • consumables • cover materials • fuels • lubricants • oils • water.
Minor components and accessories may include:	• fuses • globes • lights • tyres.
Documentation may include recording:	• checks completed • defects identified • faults serviced • housekeeping undertaken • materials used • parts replaced • repairs and adjustments made.

Unit Sector(s)

Waste management

Custom Content Section

Not applicable.