



Australian Government

Department of Education, Employment and Workplace Relations

CPPWMT3046A Conduct resource recovery

Release: 1

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Modification History

New unit
No equivalent unit

Unit Descriptor

This unit of competency specifies the outcomes required for operators undertaking resource recovery activities. It requires the ability to implement resource recovery as part of an organisation's waste management strategies in a safe and efficient manner.

Application of the Unit

This unit of competency supports individuals with responsibilities for conducting resource recovery activity. It includes contributing to the implementation of developed operational procedures and an organisation's waste management strategies. Individuals undertaking activities detailed in this unit will be guided by a team leader or a supervisor and will seek 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

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| 1 | Organise for resource recovery. | 1.1 | <i>Waste management plans</i> , work plans, job sheets or work specifications are reviewed to identify resource recovery requirements. |
| | | 1.2 | <i>Potential hazards and risks</i> are identified and reported according to <i>organisational requirements</i> , and occupational health and safety (OHS) regulations and other <i>legislation and codes</i> . |
| | | 1.3 | <i>Equipment</i> and labour required for waste recovery are identified and organised. |
| | | 1.4 | Team activity and communication processes are established. |
| 2 | Undertake resource recovery activities. | 2.1 | Recovery site is organised to ensure safe and efficient resource recovery. |
| | | 2.2 | Recovery site is monitored to ensure compliance with recovery instructions, containment of waste within designated recovery area, and adequate access and availability of space for recovery. |
| | | 2.3 | <i>Resources for recovery</i> are identified and segregated into <i>waste streams</i> . |
| | | 2.4 | <i>Hazardous waste</i> is identified and contained according to organisational requirements, and OHS regulations and other legislation and codes. |
| | | 2.5 | <i>Non-conforming waste</i> is segregated and contained prior to disposal. |

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| 3 | Conduct quality control inspection. | 3.1 | <i>Segregated waste</i> is inspected to ensure compliance with resource recovery requirements. |
| | | 3.2 | <i>Quality control inspection details</i> are documented and communicated according to job and organisational requirements. |
| 4 | Shut down and clean up area. | 4.1 | Equipment is shut down and secured according to organisational requirements. |
| | | 4.2 | <i>Work area</i> and equipment are cleaned to ensure safe and effective future operation according to organisational requirements. |
| | | 4.3 | <i>Emergency and personal protective equipment</i> (PPE) is checked for damage prior to storage |

Required Skills and Knowledge

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

Required skills

- analytical skills to:
 - identify hazards and risks
 - identify waste types and waste non-conformances
 - segregate waste types, including potentially hazardous waste
 - segregate valuable resources in composite materials
- interpersonal skills to work in a team environment
- literacy skills to:
 - document and report on resource recovery outcomes
 - record quality control inspection details
 - read and interpret:
 - job sheets
 - work requirements and material safety data sheets (MSDS)
- oral communication skills to:
 - follow instructions
 - ask questions
 - provide information
- technical skills to facilitate:
 - selection of plant and equipment
 - operation of plant and equipment
 - basic cleaning and maintenance of plant and equipment
- self-management skills to:
 - conduct work practices safely and efficiently
 - plan and undertake routine tasks
 - prioritise duties
 - use emergency and PPE
 - work in confined areas

Required knowledge

- procedures for containing segregated waste types, including containment and isolation of hazardous waste
- resource recovery procedures relating to:
 - valuable resources within materials
 - potential resources to be recovered

- timeframe to recover resources
- waste types, streams and characteristics
- industry standards and legislation
- environmental regulations
- environmental issues relating to:
 - biodiversity
 - climate change
 - composting
 - conservation
 - eco-products
 - life cycle of products: renew, re-use and recycle
 - environmental regulations
 - renewable energy
- potential hazards and risks relating to:
 - waste containment and segregation techniques
 - emergency response procedures
- OHS requirements relating to OHS hierarchy of control
- service requirements for resource recovery, including:
 - client requirements
 - duty of care
 - organisational requirements
 - reporting requirements
 - waste management options
 - waste management hierarchy
 - waste containment and disposal techniques

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 is ideally assessed in the workplace while participants are undertaking resource recovery activities. Underpinning knowledge can be determined using oral and written questioning.
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: • identify waste recovery requirements through observation and by following job sheets and work plans • organise work areas • conduct waste recovery • apply OHS and duty of care requirements.
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 • results of sampling • forms and procedures manuals.
Method of assessment	Conducting resource recovery must comply 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 to assess competency in resource recovery. 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 relevant to the job function, for example: • CPPCMN3001B Participate in environmentally sustainable work practices • CPPWMT3005A Identify and segregate waste • CPPWMT3014A Manually sort waste • CPPWMT3017A Store waste • CPPWMT3019A Prepare waste for re-use • CPPWMT3044A Identify wastes and hazards • CPPWMT4002A Carry out waste audits • CPPWMT4006A Organise waste recovery.
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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>Waste management plans</i> may include:	• strategies to minimise waste generation and maximise resource recovery.
<i>Potential hazards and risks</i> are those identified by the organisation that may lead to:	• damage to plant, vehicle or property • harm to the environment • illness or injury to employees, contractors or the public • injuries resulting from manual handling and repetitive work.
<i>Hazards and risks</i> may include:	• broken glass • compaction equipment • contamination • debris • dust • fire • hazardous waste (e.g. sharps) • narrow driveways • other vehicles and equipment • overhanging signs • projectiles • spark-producing equipment • unguarded conveyor belts • weather.
<i>Organisational requirements</i> may include information found in:	• briefing papers • job sheets • letters • memos • operations manuals • quality assurance documents • tender and contract documents • 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.
Equipment may include:	• barriers and warning signs • compactors • conveyors • excavators • generators • grabbers • guillotines • hoses • loadshifting equipment • magnets • oil caddies • pumps • siphons • sorting tables • tanks • trolleys • vacuums • waste containers.
Resources for recovery may include:	• gases, including methane • metals • plastics • paper, cardboard and associated products • reusable liquids, including cooking oils.
Waste stream may include:	• construction and demolition • dangerous goods • green waste • hazardous substances • municipal waste.
Hazardous waste may include:	• all waste depending on the condition, environment and personal exposure • biological products • blood products • broken metal

	- chemicals - electrical wiring - gases and fumes - glass - hospital waste - leaking containers - needles and syringes - oil and petrol.
Non-conforming waste may include:	- contamination - hazardous or dangerous wastes - inferior quality and unacceptable waste streams.
Segregated waste may include:	- chemical waste - construction and demolition - dangerous goods - green waste - hazardous waste - municipal waste - prescribed waste - putrescibles - quarantine - recyclable liquid - regulated waste - solid inert.
Quality control inspection details may include:	- date - location - non-conformances - quality grading - sign-off by inspector - time.
Work area may include:	- landfill - materials recovery facility - processing plant - transfer station - treatment plant - waste generator site.
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.
<i>Emergency and personal protective equipment</i> could also include:	• breathing apparatus • emergency procedure guides • face shields or masks • hard hats • hearing protection • MSDS • spill kit.
<i>Personal protective equipment</i> 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.

Unit Sector(s)

Waste management

Custom Content Section

Not applicable.