



Australian Government

CPPCLO3021 Clean industrial machinery

Release: 2

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Modification History

Release	Comments
Release 1	Replaces superseded equivalent CPPCLO3021A Clean industrial machinery. This version first released with CPP Property Services Training Package Version 4.
Release 2	Minor update to typo in the Knowledge Evidence, replace 'distilling' with 'diluting'. This version released with CPP Property Services Training Package Version 5.

Application

This unit of competency specifies the outcomes required to clean industrial machinery. It covers assessing the extent of the cleaning task and selecting the required equipment, chemicals and cleaning methods.

The unit supports cleaners who work alone or in teams. It applies to machinery cleaning in industrial, food manufacturing, and processing or mining environments.

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

Pre-requisite Unit

Nil

Unit Sector

Cleaning operations

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.
1. Plan and prepare to clean industrial machinery.	1.1. <i>Machinery</i> to be cleaned is assessed, surfaces and soil types are identified, job requirements are reviewed, and issues are clarified.
	1.2. <i>Hazards</i> , including <i>machinery cleaning hazards</i> , are

- assessed and risks controlled according to company, legislative, and **health and safety requirements**.
- 1.3. **Equipment** is selected according to job requirements, checked for serviceability, and faults are rectified or reported before starting work.
 - 1.4. **Personal protective equipment** (PPE) is sourced according to manufacturer specifications, and health and safety and company requirements.
 - 1.5. **Cleaning techniques** and **chemicals** are selected and chemicals prepared according to manufacturer specifications, and legislative, health and safety, company, and environmental requirements.
 - 1.6. Signs and barricades are selected and installed according to health and safety, and company requirements.
 - 1.7. Pre-existing damage is identified and reported according to company requirements.
2. Conduct cleaning tasks.
 - 2.1. Existing access platforms are used according to manufacturer specifications, and health and safety, and company requirements.
 - 2.2. Items and areas requiring protection from damage are covered according to client and company requirements.
 - 2.3. Heavily soiled areas are pre-treated according to manufacturer specifications and company requirements.
 - 2.4. Machinery is **cleaned** according to client requirements, manufacturer specifications and company requirements.
 - 2.5. Machinery is inspected for residual soil and spot cleaned according to company requirements.
 3. Tidy work site.
 - 3.1. Collected soil and waste are disposed of according to client and company specifications, and legislative, environmental, and health and safety requirements.
 - 3.2. Signs and barricades are removed according to health and safety, and company requirements.
 4. Clean and safety check equipment, and store equipment and
 - 4.1. Equipment and PPE are cleaned, safety checked and stored according to manufacturer specifications and environmental, health and safety, and company requirements.

chemicals.

- 4.2. Unused chemicals are stored or disposed of according to manufacturer specifications, and health and safety and company requirements.

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.

Skill	Performance feature
Numeracy skills to:	dilute and mix required chemicals using whole numbers and routine fractions.
Oral communication skills to:	- ask questions to clarify job requirements - respond clearly and concisely to client questions.
Reading skills to:	- interpret simple, structured manufacturer instructions when using equipment and preparing chemicals - interpret directions and safety instructions, including: - equipment operating manuals - product labels - safety data sheets (SDS).
Writing skills to:	document and report faults in equipment to manufacturer and other personnel.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Machinery</i> must include at least three of the following:	- bottle-making machines - concrete-making machines - earth-moving equipment - food-processing machines and equipment - mining industry equipment - trucks - welders.
<i>Hazards</i> that must be	- biological and environmental contaminants - chemical exposure via absorption, ingestion and inhalation

assessed include:

- chemical reactivity
- dust and fibre particulates
- electrical
- environmental allergens
- explosions
- fatigue
- fire
- manual handling
- noise
- poor ventilation
- slips, trips and falls
- syringes and sharps
- working in confined spaces.

Machinery cleaning hazards that must be assessed include:

- exposed or damaged electrical components, wiring and cabling
- faulty pressure hoses or pressure relief valves
- overriding, removing or interfering with machinery safety devices.

Health and safety requirements must include:

- access to communication devices when working alone
- compliance with Safe Work Australia regulations and guidelines
- electrical equipment test and tag compliance
- emergency response procedures
- environmental controls
- hazard signs and barricades
- health and safety induction and refresher training
- manual handling techniques
- processes for safely dispensing chemicals
- risk assessment procedures, including:
 - hazardous chemicals register
 - hierarchy of control
 - job safety analyses (JSA) for low-risk situations
 - safe work method statements (SWMS) for high-risk situations
 - incident reporting
- SDS
- selection and use of required PPE
- storage and maintenance of equipment according to manufacturer specifications
- use of first aid according to SDS information.

Equipment must include at least two of the following:

- air blowers
- brooms
- cloths
- high-pressure water cleaning units

- hoses
 - squeegees.
 - ear muffs and plugs
 - gloves
 - eye protection
 - hard hats
 - hair and beard nets
 - disposable respirators
 - safety shoes.
- Personal protective equipment** must include at least two of the following:
- Cleaning techniques** must include:
- air blowing
 - dry wiping
 - hosing down
 - low-water cleaning methods
 - pre-spraying
 - pressure washing
 - rinsing
 - scrubbing and wiping
 - spot cleaning
 - washing and wiping
 - wet wiping.
- Cleaning chemicals** must include at least one of the following:
- acid cleaners
 - alkaline cleaners
 - low environmental impact chemicals
 - neutral cleaners
 - solvent cleaners.
- Cleaned** must include:
- selecting and using required:
 - equipment
 - PPE
 - chemicals
 - cleaning techniques.

Unit Mapping Information

CPPCLO3021A Clean industrial machinery

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPCLO3021 Clean industrial machinery

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Performance Evidence

A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria, foundation skills and range of conditions of this unit.

The person must also use safe and efficient methods to clean three of the following types of industrial machinery:

- bottle-making machines
- concrete-making machines
- earth-moving equipment
- food-processing machines and equipment
- mining industry equipment
- trucks
- welders.

The person must demonstrate each of the following techniques when cleaning the above industrial machinery:

- air blowing
- dry wiping
- hosing down
- low-water cleaning methods
- pre-spraying
- pressure washing
- rinsing
- scrubbing and wiping
- spot cleaning
- washing and wiping

- wet wiping.

In doing the above work, the person must:

- identify site hazards and control risks before commencing the task
- select required cleaning equipment and chemicals according to type of machinery and extent of cleaning required
- identify surface and soil types
- handle and dispose of waste safely and according to client and environmental requirements.

Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- environmental requirements relating to cleaning industrial machinery, including:
 - clean-up, containment and isolation procedures
 - environmental protection agency requirements relating to cleaning industrial machinery
 - use of low-energy cleaning methods
 - use of low-moisture cleaning methods
 - use of low water-use equipment and water-efficient cleaning methods
 - use of non-chemical cleaning methods.
- key requirements of legislation, regulations, codes of practice and industry advisory standards relating to cleaning industrial machinery, including industry advisory standards and codes, such as dangerous goods codes
- machinery manufacturer cleaning specifications, including restrictions or limitations on surfaces that can be pressure washed
- procedures for avoiding incidental damage to industrial machinery through the cleaning process, including:
 - discoloration
 - electrical dampness
 - filter damage
 - paint removal
 - rust
- range and application of cleaning equipment and chemicals for industrial machinery
- range and application of cleaning methods for:
 - electrical equipment
 - industrial machinery
- safe handling techniques for working with hazardous chemicals, including:
 - emergency chemical spill control measures
 - routes of entry and potential symptoms of exposure to chemicals
 - safe methods for diluting chemicals

- working according to safety data sheets (SDS)
- type and characteristics of different soil found on industrial machinery, including:
 - dust
 - exhaust and soot
 - food and food scraps
 - grease
 - oil
 - paint.

Assessment Conditions

The following must be present and available to learners during assessment activities:

- equipment:
 - as listed in the range of conditions
 - personal protective equipment (PPE) as listed in the range of conditions
- materials:
 - cleaning chemicals as listed in the range of conditions
- specifications:
 - equipment operating manuals
 - SDS
- physical conditions:
 - suitable venue with access to range of industrial machinery listed in the performance evidence
- relationships with team members and supervisor:
 - work may be conducted alone or as part of a team.

Timeframe:

- as specified by the task.

Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

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