



Australian Government

CPPCLO3014 Maintain clean-room environments

Release: 2

CPPCLO3014 Maintain clean-room environments

Modification History

Release	Comment
Release 1	Replaces superseded equivalent CPPCLO3014A Maintain clean-room environments. 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 ensure clean-room environments housing electronic and other sensitive equipment are cleaned and maintained to avoid dust and moisture entering equipment and cabling. It covers assessing the extent of the cleaning task and selecting and using the equipment, chemicals and methods required for the task.

The unit supports cleaners who work alone or in teams. It applies in a range of commercial and residential work sites. Clean rooms may be used for specialised computer installations, computer equipment repairs, installation of PABX units, manufacturing electronic components, laboratories and sterile rooms for food manufacturing. Some clean rooms may be pressurised to reduce the amount of dust entering the room.

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. Assess area to be cleaned.
 - 1.1. Clean room is **assessed** and issues are clarified as required.
 - 1.2. Work site **hazards** are assessed and risks controlled according to company, legislative, and **health and safety requirements**.
 - 1.3. Required **equipment** is selected according to job requirements, checked for serviceability, and faults are rectified or reported before starting work.
 - 1.4. Required **cleaning chemicals** are selected and prepared.
 - 1.5. **Personal protective equipment** (PPE) is sourced according to manufacturer specifications, and health and safety and company requirements.
 - 1.6. Cleaning procedures are planned and sequenced to start from work site highest point and move to lowest according to job, health and safety, and company requirements.
 - 1.7. Signs and barricades are selected and installed according to health and safety, and company requirements.
 - 1.8. Pre-existing damage is identified and reported according to company requirements.
2. Implement cleaning plan.
 - 2.1. Furniture and fittings are removed to allow cleaning tasks to be performed.
 - 2.2. Equipment, chemicals and cleaning techniques are used to remove soil and clean surfaces according to manufacturer specifications, and health and safety and company requirements.
 - 2.3. Clean-room maintenance work is performed to minimise damage caused by electrostatic or electromagnetic contamination and loosening of cables or wiring according to manufacturer specifications and legislative, health and safety, and 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. Furniture and fittings are returned to original position according to job requirements.

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| | 3.3. | Signs and barricades are removed according to health and safety, and company requirements. |
| 4. | Clean and safety check equipment, and store equipment and chemicals. | 4.1. Equipment and PPE are cleaned, safety checked and stored according to manufacturer specifications and environmental, health and safety, and company requirements.

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 chemicals required for cleaning tasks using whole numbers and routine fractions.
Oral communication skills to:	ask questions to clarify job requirements.
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.

Assessed must include:

- extent of cleaning required
- types of clean-room surfaces to be cleaned, which must include

at least two of the following:

- benchtops and work stations
- cabling
- ceilings
- equipment casings
- hard floor surfaces
- soft floor surfaces, such as special dust-catching carpets
- types of clean-room fittings to be cleaned, which must include at least four of the following:
 - cameras
 - furniture
 - glass
 - lights
 - monitors
 - skylights
 - smoke detectors
 - sprinkler systems
 - vents and grilles
- potential for damage to clean-room equipment.

Hazards that must be assessed include:

- biological and environmental contaminants
- chemical exposure via absorption, ingestion and inhalation
- 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.

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:

- brooms
- buckets
- buffing machines with brushes and pads
- cleaning trolleys
- dustpans
- extension poles
- garbage bins
- glass cleaning equipment
- lint-free and anti-static cleaning cloths
- microfibre products
- mops:
 - damp
 - dust
- scourers
- vacuum cleaners and accessories.

Cleaning chemicals must include at least one of the following:

- acid cleaners
- alkaline cleaners
- low environmental impact chemicals
- neutral cleaners
- solvent cleaners.

Personal protective equipment must include at least two of the following:

- gloves
- eye protection
- masks
- protective clothing
- safety shoes.

Unit Mapping Information

CPPCLO3014A Maintain clean-room environments

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 CPPCLO3014 Maintain clean-room environments

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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 maintain each of the following surfaces in two different clean-room environments:

- benchtops and work stations
- cabling
- ceilings
- equipment casings
- hard floor surfaces
- soft floor surfaces, such as special dust-catching carpets.

In doing the above work, the person must clean four of the following fittings in each clean room:

- cameras
- furniture
- glass
- lights
- monitors
- skylights
- smoke detectors
- sprinkler systems
- vents and grilles.

During the above work, the person must also:

- identify site hazards and control risks before commencing the task
- select cleaning equipment and chemicals required for the task
- use safe and efficient cleaning methods.

Knowledge Evidence

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

- cleaning chemicals and equipment suitable for using with sensitive equipment
- cleaning techniques for clean-room environments, including:
 - buffing
 - damp mopping
 - dust mopping
 - low-water cleaning methods using microfibre cleaning products
 - spot cleaning
 - steam cleaning
 - surface wiping with lint-free or anti-static cloths
 - vacuuming with crevice tool on hard-to-access surfaces
- correct procedures for handling and disposing of:
 - chemicals
 - contaminated and toxic waste
- environmental requirements when maintaining clean-room environments, including:
 - clean-up, containment and isolation procedures
 - environmental protection agency requirements relating to maintaining clean-room environments
 - 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
- impact of dust, moisture, electrical current and magnetic fields on sensitive electronic equipment
- key requirements of legislation, regulations, codes of practice and industry advisory standards relating to maintaining a clean-room environment
- 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).

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
 - product labels
 - SDS
- physical conditions:
 - at least two different clean-room environments with surface types 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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