



Australian Government

**Assessment Requirements for
CPPCLO4104 Restore water-damaged
structures and contents**

Release: 1

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Modification History

- Release 1 This version first released with CPP Property Services Training Package Release 15.0.
- Supersedes and is not equivalent to CPPCLO3008 Mitigate carpet water damage.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by:

- developing a plan to restore a water-damaged internal wall and hard floor at two different commercial sites where one site is contaminated by black water and one site is contaminated by grey water
- restoring a domestic carpet damaged by clean water to pre-event condition.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- aspects of the following relevant to water damage remediation:
 - work health and safety (WHS) requirements
 - Safe Work Australia regulations and guidelines
 - job safety analyses (JSAs) and safe work method statements (SWMS)
 - manufacturer instructions and safety data sheets (SDS)
 - IICRC S500 Standard for Water Damage Restoration or Australian equivalent
 - AS/NZS 3733 Textile floor coverings – Cleaning maintenance of residential and commercial carpeting
 - Environment Protection Authority (EPA) and local requirements for prescribed waste disposal
- personal and site security procedures and requirements:
 - site access - security cards, codes and keys
 - areas of the worksite not to be accessed
 - alarm activation and deactivation
 - maintaining client privacy and confidentiality
 - contingencies if personal safety at risk
- health effects of exposure to microbial contamination in water-damaged buildings

- potential microorganisms present in a water-damaged site
- unintended consequential damage arising from event and mitigation
- building system considerations relevant to water remediation:
 - structural components - methods of construction and materials
 - heating, cooling and ventilation, including heating, ventilation and air conditioning (HVAC) systems
 - potential locations of not readily observable water damage - behind and under plaster walls, ceilings, pipes, appliances, insulation, panelling, wallpaper, floors, flooring, carpet, cabinetry and interstitial spaces
 - effects of humidity, airflow and temperature on drying and moisture movement through structural materials and contents
- types of hazards and risks and ways to control:
 - types of personal protective equipment (PPE) and correct selection, care, use and disposal
 - slips, trips, falls and spills
 - manual-handling techniques when carrying, lifting, pushing and pulling
 - identification and safe practices with asbestos on site
 - correct use of signage, barriers, containment and engineering controls and PPE
 - safe use of electrical equipment
- cleaning principles:
 - cleaning agent, time, agitation, temperature
 - significance of pH value of cleaning agents
 - sequence and direction of cleaning
 - achieve results while doing no harm
- types, characteristics and processes to identify clean, black and grey water
- class of water intrusion and mitigation methods and precautions for surface types:
 - porous
 - semi-porous
 - non-porous
- factors determining restorability:
 - classification of water and duration of exposure
 - material composition
 - cost of restoration
 - cost of replacement
 - sentimental, legal, artistic, cultural, historical value
 - potential secondary harm and waste created by restoration methods
- situations and procedure for seeking specialist advice:
 - work requiring insurance company approval
 - situations requiring waiver
 - specialised contents such as artwork
 - high value and irreplaceable items

- role, strengths and limitations of specialists who may provide advice:
 - Indoor Environmental Professional (IEP)
 - occupational hygienist
 - building professional
 - insurance representative
 - microbiologist
- indications that water-damaged carpet and underlay, and personal items should be disposed of
- strategies to promote surface evaporation and methods for extracting water and drying for:
 - carpet construction, fibre and underlay type
 - sub-flooring structures
 - building structures
- functions and features of equipment - safe operational practices, routine maintenance and storage:
 - submersible and surface pumps
 - extraction units
 - extraction tools, including light wands, weighted drag tools, stationary tools, handheld tools and self-propelled units
 - axial and centrifugal air moving equipment
 - structural cavity drying equipment
 - air filtration devices (AFDs)
 - dehumidification equipment, including refrigerant dehumidifiers, low-grain refrigerants (LGRs) and desiccants
 - heat drying systems and equipment (direct fired, indirect fired, electric, hydronic and radiant)
- functions and features of detection and monitoring instruments - safe operational practices, storage and routine maintenance:
 - thermometers
 - hygrometers
 - psychrometers
 - manometers
 - gas detectors
 - particle counters
 - moisture meters
 - thermal imaging cameras
 - psychrometric charts and calculators

data logging devices, remote monitoring systems adenosine triphosphate (ATP) and e-coli testing

- types, application and limitations of moisture testing
- factors affecting moisture testing results

- types of cleaning agents - their purpose, action, correct use, precautions, safe handling, storage and disposal:
 - anti-microbial agents
 - detergents
 - disinfectants
- environmentally sustainable work practices and compliance with environmental regulations:
 - ways of minimising negative environmental impact
 - conserving energy and water
 - recycling
 - waste disposal of used materials and remediation agents
 - disposal of prescribed waste.

Assessment Conditions

Assessors must satisfy the requirements for assessors contained in the Standards for Registered Training Organisations.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting where these skills and knowledge would be performed.

Candidates must have access to:

- industry-standard cleaning equipment
- appropriate PPE
- manufacturer's instructions and workplace documents.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>