Unit of competency

Release 1	This version first released with CPP Property Services Training Package Release 15.0 NEWLY CREATED UNIT
Unit Code	CPPCLO4108
Unit Title	Restore fire and smoke-affected structures and contents
Application	This unit specifies the skills and knowledge required to neutralise, control corrosion and clean structures and contents affected by fire and smoke. Fire and smoke damage may be caused by fire in buildings or surrounding areas such as bushfires. Contents include appliances, furnishings, household and personal items that may be of high value or irreplaceable. The unit is informed by standards set by the Institute of Inspection, Cleaning and Restoration Certification (IICRC) and relevant Australian Standards and applies to experienced technicians responding to jobs in commercial and domestic sites following a fire event in either the building or surrounding areas. Restoration may be undertaken on site or, where necessary, packed out and taken off site for restoration. This unit is suitable for cleaning industry personnel who use well-developed cognitive, technical and communication skills and a broad knowledge base to select and apply specialist methods, tools, materials and information in operational cleaning management contexts. They complete routine and non-routine activities and provide and transmit solutions to a variety of predictable and sometimes unpredictable problems. All work must be carried out in accordance with relevant state/territory legislation and regulations, including work health and safety (WHS), and codes of practice as well as organisational procedures. *No licensing, legislative or certification requirements apply to this unit at the time of publication.*
Prerequisite Unit	Nil
Competency Field	
Unit Sector	Cleaning
ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.

DRAFT

1	Inspect and assess fire and smoke damage.	1.1	Clarify site access, areas to be restored and scope of work with building owner, client, insurer or supervisor.
		1.2	Select, check for fit and serviceability, and use personal protective equipment (PPE) according to WHS and job requirements.
		1.3	Determine and document materials burned, area and extent of fire and smoke damage and the source of fire and smoke odour.
		1.4	Identify water damage associated with the fire event and refer for restoration.
		1.5	Assess site hazards, risks and contamination and determine control measures, including containment and engineering controls required, according to WHS requirements.
		1.6	Investigate materials and construction of affected structure and contents to determine if disposal is required or restoration is viable.
		1.7	Seek specialist advice, where required, according to job, organisational and legislative requirements.
		1.8	Document condition of area to be restored and advise client, building owner or insurer of the results of the assessment, proposed restoration methods, risks and likely outcomes and seek approval to proceed according to organisational requirements.
2	Prepare to undertake fire and smoke damage restoration.	2.1	Determine restoration methods, equipment and sequence of tasks according to level of damage, time since fire event, firefighting method used, and type of structure and contents.
		2.2	Position safety signage, barriers, containment and engineering controls and confirm that area is safe to access and work in according to WHS and job requirements.
		2.3	Remove structural elements that may impede the restoration process according to work role, WHS and job requirements.
		2.4	Identify and document items that are unable to be restored according to job and WHS requirements.
3	Treat salvageable surfaces and contents.	3.1	Remove items to an off-site facility for treatment, where necessary, according to job and organisational requirements.
		3.2	Remove the source of fire and smoke odour, odour-causing residue and unsalvageable debris according to organisational, job and WHS requirements.
		3.3	Determine and remove potential sources of recontamination of cleaned and deodorised areas according to job and WHS requirements.
		3.4	Clean and deodorise salvageable surfaces according to job, WHS and organisational requirements.
4	Treat remaining odour.	4.1	Determine sources of remaining odour and select appropriate deodorising technology according to job and WHS requirements.
		4.2	Create a deodorising fog or gas to seek out and

DRAFT

			combine with odour-causing substances, as required, according to job and WHS requirements.
		4.3	Encapsulate odour by sealing inaccessible or slightly scorched salvageable surfaces to prevent progressive recontamination, as required, according to job and WHS requirements.
		4.4	Assess outcome of odour removal and repeat action when odour has not been removed sufficiently to meet job requirements.
5	Evaluate outcomes of restoration activities.	5.1	Determine the need for post-restoration testing and, if required, arrange testing according to industry accepted practice and organisational procedures.
		5.2	Determine further action or advice required based on evaluation or test results.
		5.3	Conduct repeat restoration, if needed, according to organisational and job requirements.
6	Complete work activities.	6.1	Record site restoration and seek independent sign-off, as required, according to job and WHS requirements.
		6.2	Remove safety signage and barriers, return restored items to site, and dispose of soil and waste according to WHS and environmental requirements.
		6.3	Clean and/or dispose of PPE as required by organisational requirements.
		6.4	Check restoration equipment for faults, wear or damage and report according to organisational requirements.
		6.5	Store equipment and materials according to organisational requirements.

FOUNDATION SKILLS	Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.
UNIT MAPPING INFORMATION	NEWLY CREATED UNIT
LINKS	The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b.

Assessment Requirements

UNIT CODE AND TITLE	CPPCLO4108 Restore fire and smoke affected structures and contents.
Release 1	This version first released with CPP Property Services Training Package Release 15.0 NEWLY CREATED UNIT

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

- completing at least two of the following:
  - restoring two walls and cavities in a fire-affected building structure

DRAFT

- restoring one timber, one vinyl and one carpeted smoke-affected floor
- planning the steps required to restore six different smoke-affected household items in a specialised treatment facility.

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

- aspects of the following relevant to fire and smoke damage restoration:
  - 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 S700 Standard for Professional Fire and Smoke Damage Restoration or Australian equivalent
  - 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
- building system considerations relevant to fire and smoke restoration:
  - 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 damage and odour - behind and under plaster walls, ceilings, pipes, appliances, insulation, panelling, wallpaper, floors, flooring, carpet, cabinetry and interstitial spaces
- 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 and temperature
  - significance of pH value of cleaning agents
  - sequence and direction of cleaning
  - achieve results while doing no harm
- unintended consequential damage arising from fire event and mitigation
- factors determining restorability:
  - type of fire and duration of exposure
  - material composition
  - cost of restoration
  - cost of replacement
  - sentimental, legal, artistic, cultural and historical value
  - potential secondary harm and waste created by restoration methods
- situations and procedures for seeking specialist advice:
  - work requiring insurance company approval
  - situations requiring waiver
  - specialised contents such as artwork
  - high value and irreplaceable items

DRAFT

- role, strengths and limitations of specialists who may provide advice:
  - Indoor Environmental Professional (IEP)
  - occupational hygienist
  - building professional
  - insurance representative
  - microbiologist
- types of fire, their characteristics, levels of contamination and damage created:
  - timber, plastics and proteins
- reasons and procedures for removal of items to off-site facility
- impact of time since fire event on restoration
- fire and smoke restoration methods and precautions for surface types:
  - porous
  - semi-porous
  - non-porous
- purpose, action, correct use, precautions, safe handling, storage and disposal of restoration methods and agents:
  - soot removal
  - ozone generators
  - deodorising technologies such as hydroxyls and cold plasma
  - laser ablation, dry ice blasting and soda blasting
  - fogging post treatment
- functions, features, safe operational practices, storage and maintenance of restoration equipment
- types, application and testing methodology
  - swipe, visual and odour testing
- 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:

- client work order, instructions or service agreement
- organisational documentation, policies and procedures.

LINKS	The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b.

DRAFT