



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **PUAFIR314A Utilise installed fire safety systems**

**Release: 1**

## **PUAFIR314A Utilise installed fire safety systems**

### **Modification History**

Not applicable.

### **Unit Descriptor**

This unit covers the competency involved in the operation and restoration of installed fire safety systems and the operation of building evacuation systems and emergency procedures. This unit covers the competency involved in the operation and restoration of installed fire safety systems and the operation of building evacuation systems and emergency procedures

### **Application of the Unit**

Not applicable.

### **Licensing/Regulatory Information**

Not applicable.

### **Pre-Requisites**

Not applicable.

### **Employability Skills Information**

Not applicable.

### **Elements and Performance Criteria Pre-Content**

Not applicable.

### **Elements and Performance Criteria**

#### **Elements and Performance Criteria**

| <b>Element</b>                                                                     | <b>Performance Criteria</b>                                                                                  |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1 Locate the installed fire safety system/s and any associated controls and panels | 1.1 Installed fire safety systems are located for pre-fire planning, inspection, reports and/or on-site cues |
|                                                                                    | 1.2 Installed fire safety system's control/indicating                                                        |

- panels, where applicable, are located and monitored according to procedures to facilitate their use in supporting firefighting operations
- |   |                                                                                                                         |     |                                                                                                                                                                                                    |
|---|-------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | Utilise the installed fire safety system/s to maximise effectiveness of firefighting operations and occupant evacuation | 2.1 | Installed fire safety systems are used according to organisational procedures to facilitate locating the fire, to support occupant evacuation, rescue and fire suppression, and to minimise damage |
|   |                                                                                                                         | 2.2 | Any faults with the system are reported to the supervisor                                                                                                                                          |
| 3 | Utilise building evacuation systems and procedures                                                                      | 3.1 | Building emergency procedures and emergency response structures are identified and implemented in accordance with the organisation's procedures                                                    |
|   |                                                                                                                         | 3.2 | Wardens are consulted in accordance with the organisation's procedures                                                                                                                             |
|   |                                                                                                                         | 3.3 | Building evacuation systems are effectively operated in consultation with appropriate building facility personnel                                                                                  |
| 4 | Reinstate installed fire safety system/s to service                                                                     | 4.1 | The system is reinstated to service after operation, or arrangements are made for its recommissioning, according to the organisation's procedures                                                  |

## Required Skills and Knowledge

Not applicable.

## Evidence Guide

### Critical aspects of evidence

It is essential for this unit that competence is demonstrated in:

locating, identifying, operating and restoring:

fire detection systems

fire suppression systems

hydrant systems

evacuation systems

smoke hazard management systems

implementing organisation's operating procedures relating to fire suppression

### Interdependent assessment of units

Pre-requisite units:

PUAFIR206A Check installed fire safety systems

Co-requisite units:

Nil

### Underpinning knowledge

components of a fire detection/suppression system

operation of fire detection/suppression systems

organisation's responsibility regarding fire detection and suppression systems

safety procedures relating to chemical/gaseous suppression systems

operating principles of an EWIS

roles and responsibilities of a warden

operating principles of air handling systems

function of component parts of mechanical venting and air handling equipment

function and components of hydrant systems

purpose of control and indicating equipment

organisation's procedures for reinstating fire safety systems

### Underpinning skills

identify fire suppression and detection systems

operate an installed hydrant system

operate an installed suppression system

operate an EWIS

operate smoke hazard management system

report fire safety system equipment faults

### Resource implications

This unit will require access to equipment and systems covered in the range of variables.

### Consistency of performance

Evidence should be gathered over a period of time in a range of actual or simulated workplace environments.

### Context of assessment

Evidence of competence may be demonstrated on the job or by exercises in a simulated workplace environment

Written or verbal assessment of knowledge components may be used as supporting evidence

Checking, operating and reinstating of fire safety systems to be done under supervision

### Critical aspects of evidence

It is essential for this unit that competence is demonstrated in:

locating, identifying, operating and restoring:

fire detection systems  
fire suppression systems  
hydrant systems  
evacuation systems  
smoke hazard management systems  
implementing organisation's operating procedures relating to fire suppression

**Interdependent assessment of units**

Pre-requisite units:

PUAFIR206A Check installed fire safety systems

Co-requisite units:

Nil

**Underpinning knowledge**

components of a fire detection/suppression system  
operation of fire detection/suppression systems  
organisation's responsibility regarding fire detection and suppression systems  
safety procedures relating to chemical/gaseous suppression systems  
operating principles of an EWIS  
roles and responsibilities of a warden  
operating principles of air handling systems  
function of component parts of mechanical venting and air handling equipment  
function and components of hydrant systems  
purpose of control and indicating equipment  
organisation's procedures for reinstating fire safety systems

**Underpinning skills**

identify fire suppression and detection systems  
operate an installed hydrant system  
operate an installed suppression system  
operate an EWIS  
operate smoke hazard management system  
report fire safety system equipment faults

**Resource implications**

This unit will require access to equipment and systems covered in the range of variables.

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## Range Statement

### **System component parts must include**

heat and smoke detectors  
firefighting media  
fire indicator panel  
EWIS panels  
dampers  
controls  
fans and motors  
sprinkler heads  
sprinkler controls and components  
hydrants  
pumps  
boosters  
connections

### **Operation of fire safety systems must include**

Interrelated activities utilising the installed fire safety systems in the presence of smoke, heat or fire.

These include:

suppression systems  
detection systems  
evacuation systems  
hydrant systems  
smoke hazard management systems

### **Smoke hazard management systems may include**

natural venting  
mechanical venting  
zone/stair pressurisation  
control and indicating equipment

### **Evacuation systems must include**

emergency warning and intercommunication systems  
emergency warning systems  
Warden Systems as set out in Australian Standard 3745

### **and may also include**

emergency control organisation  
Health Care Emergency Management Structures as set out in Australian Standard AS4083  
-1997 Emergency Response for Health Care Facilities

### **Operation of these systems must include compliance with**

organisational procedures  
standards

### **and may also include**

manufacturer's specifications  
fire safety strategy for site

### **Suppression systems must include**

sprinklers  
gaseous flooding  
foam flooding

control and indicating equipment

**Detection systems must include**

smoke detection

heat detection

flame detection

gas detection

control and indicating equipment

**Hydrant systems must include**

street hydrants

ring main hydrant systems

high rise hydrant systems

**System component parts must include**

heat and smoke detectors

firefighting media

fire indicator panel

EWIS panels

dampers

controls

fans and motors

sprinkler heads

sprinkler controls and components

hydrants

pumps

boosters

connections

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**Hydrant systems must include**

street hydrants  
ring main hydrant systems  
high rise hydrant systems

## **Unit Sector(s)**

Not applicable.