Australian Government

Department of Education, Employment and Workplace Relations

PMAOHS213B Undertake fire control and emergency rescue

Revision Number: 1

ISC INDUSTRY SKILLS COUNCILS
Creating Australia's Future

PMAOHS213B Undertake fire control and emergency rescue

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit of competency is designed to allow a person to function as a member of an emergency response team in order to meet and respond to fire emergencies in an onshore and/or offshore facility.

Application of the Unit

Application of the unit	An ability to work under supervision or alone is required. This competency may be delivered as part of an induction program.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Respond to identified fire emergencies	1.1. Communicate the nature and extent of the fire emergency to team members in order to confirm required actions and responses 1.2. Apply knowledge of fire chemistry, fire characteristics and chemical hazards to assessment of the fire emergency and communicate the action required 1.3. Advise others of the nature and extent of the fire emergency from a knowledge of appropriate fire control strategies.
2. Deploy fire emergency equipment.	2.1. Utilise knowledge of the location and availability of fire fighting equipment in the control of a fire emergency 2.2. Select and utilise appropriate personal protective clothing and equipment and breathing apparatus by all team members 2.3. Apply appropriate fire fighting and containment media in a safe and coordinated manner, in accordance with the manufacturer specifications and the organisation's procedures, to attack and control the fire emergency.
3. Undertake search of and rescue from affected areas.	3.1. Confirm the need to conduct the search and rescue with team leaders or other nominated personnel 3.2. Conduct systematic primary and secondary searches 3.3. Search rooms and mark in accordance with the organisation's procedures 3.4. Lead occupants to safety 3.5. Locate injured personnel and transfer them in an appropriate manner to a safe location 3.6. Minimise the risk of further injury to affected personnel by applying casualty handling techniques and handing them to the care of medical personnel once clear of threat of fire 3.7. Communicate extent of injuries and casualty numbers to other support groups and request further assistance as required.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE
This describes the essential skills and knowledge and their level, required for this unit.
Required skills
Competence includes the ability to: • correctly use relevant control and rescue equipment • communicate effectively under stress • react quickly and effectively to changing circumstances • identify hazardous circumstances and conditions within the emergency • apply local knowledge of plant layout and equipment.
Required knowledge
Knowledge and understanding of the process sufficient to recognise fire situations and then determine an action that is appropriate within operating guidelines and the scope of their responsibilities and competencies.   It would be expected that a person would be able to communicate with team members the nature and extent of the fire and the actions required. Demonstrated knowledge of: • fire chemistry, fire characteristics and chemical hazards • location and availability of fire fighting equipment • appropriate personal protective clothing, equipment and breathing apparatus • appropriate fire fighting and containment media • casualty handling techniques.

Evidence Guide

EVIDENCE GUIDE
The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Overview of assessment	Assessment for this unit of competency will be on an operating plant. The unit will be assessed in as holistic a manner as is practical and may be integrated with the assessment of other relevant units of competency. Assessment will occur over a range of situations which will include disruptions to normal, smooth operation. Simulation may be required to allow for timely assessment of parts of this unit of competency. Simulation should be based on the actual plant and will include walk-throughs of the relevant competency components. Simulations may also include the use of case studies/scenarios and role plays. This unit of competency requires a significant body of knowledge which will be assessed through questioning and the use of what-if scenarios both on the plant (during demonstration of normal operations and walk-throughs of abnormal operations) and off the plant.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Competence must be demonstrated in the ability to recognise and analyse potential situations requiring action and then in implementing appropriate corrective action. The emphasis should be on the ability to minimise the effects of the critical situation. Consistent performance should be demonstrated. In particular look for evidence of: • ability to work effectively in a team • recognition of fire behaviour • impact of fire fighting tactics • conducting fire fighting operations in accordance with the organisation's safe work practices These aspects may be best assessed using a range of scenarios/case studies/what-ifs as the stimulus with a walk-through forming part of the response. These assessment activities should include a range of

EVIDENCE GUIDE

	problems, including new, unusual and extreme situations which may have been generated from the past incident history of the plant, incidents on similar plants around the world, hazard analysis activities (eg HAZOP) and similar sources.
Context of and specific resources for assessment	Assessment will require access to an operating plant over an extended period of time, or a suitable method of gathering evidence of operating ability over a range of situations. A bank of scenarios/case studies/what-ifs will be required as will a bank of questions which will be used to probe the reasoning behind the observable actions.
Method of assessment	In all plants it may be appropriate to assess this unit concurrently with relevant teamwork, OHS and communication units.
Guidance information for assessment	Assessment processes and techniques must be culturally appropriate and appropriate to the oracy, language and literacy capacity of the assessee and the work being performed.

Range Statement

RANGE STATEMENT	
The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs if the candidate, accessibility of the item, and local industry and regional contexts.	
Codes of practice/ **standards**	Where reference is made to industry codes of practice, and/or Australian/international standards, the latest version must be used.
Context	This competency would be applied by those persons who as a normal part of the work responsibilities and duties act as members of an emergency response team on an onshore or offshore facility.
	The person undertaking this competency must be able to work alone and also within an environment which requires a high level of teamwork and interpersonal communication. A person undertaking this unit of competency should be able to respond to directives given either by emergency team leaders or other team members in order to contain and control the emergency.
	This unit could be applied to any of the following installations or facilities:
	• onshore/offshore rig/installation • island based facility • floating production platform • onshore production, processing and/or storage facilities • pipeline easements • maintenance bases.
	Equipment may include:

	• fire extinguishing agents and water curtains
	• hoses
	• mobile extinguishers
	• stretchers
	• personal protective clothing and equipment such as:
	   • chemical protective clothing
	   • distress alarms
	   • structural fire protective clothing
	• self contained breathing apparatus (SCBA)
	• communication equipment.

	Fire extinguishing media may include:
	• water

RANGE STATEMENT	
	• foam • extinguishing powder • gaseous extinguishing agents • vapourising liquids • other fire extinguishing substances. On-scene hazards may include: • smoke, darkness and heat • electricity • gas • structural hazards • structural collapse • industrial - machinery, equipment, product • hazardous products and materials • unauthorised personnel. Firefighting strategies and tactics may include: • direct attack • indirect attack • combination attack • exposure protection • internal/offensive attacks • confining the spread of fire • rescuing occupants • cooling the fuels • removal of fuels • interrupting the chemical chain reaction • exclusion of oxygen.
Health, safety and environment (HSE)	All operations to which this unit applies are subject to stringent health, safety and environment requirements, which may be imposed through State or Federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between Performance Criteria and HSE requirements, the HSE requirements take precedence.

Unit Sector(s)

Unit sector	Support/generic

Competency field

Competency field

Co-requisite units

Co-requisite units

Manufacturing Skills Australia