



Australian Government

Department of Education, Employment and Workplace Relations

UEPOPS523A Manage critical incidents

Release: 1

UEPOPS523A Manage critical incidents

Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

1) Scope:

1.1) Descriptor

This unit refers to the management of incidents of a critical nature that may impact on the operational effectiveness of the plant or system, endanger human life or property, or have an adverse impact on the environment.

Application of the Unit

Application of the Unit 2)

This unit is intended to augment formally acquired competencies. It is suitable for employment-based programs under an approved contract of training.

Licensing/Regulatory Information

License to practice 3)

The skills and knowledge described in this unit do not require a licence to practise in the workplace. However, practice in this unit is subject to regulations directly related to Occupational Health and Safety and where applicable contracts of training such as apprenticeships and the like.

Pre-Requisites

Prerequisite Unit(s) 4)

Competencies 4.1)

Granting of competency in this unit shall be made only after competency in the following unit(s) has/have been confirmed.

Where pre-requisite pathways have been identified. All competencies in the Common Unit Group must be have been completed.

Common Unit Group

Unit Code	Unit Title
UEPOPS369A	Respond to a critical incident
UEPOPS454A	Coordinate response to critical incidents

Literacy and numeracy skills 4.2)

Participants are best equipped to achieve this unit if they have reading, writing and numeracy skills indicated by the following levels. A description of what each level entails is provided in Section 2.3.1 Language, Literacy and Numeracy.

Reading 5 Writing 5 Numeracy 5

Employability Skills Information

Employability Skills 5)

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this unit of competency is packaged will assist in identifying Employability Skill requirements.

Elements and Performance Criteria Pre-Content

- 6) Elements describe the essential outcomes of a competency standard unit. Performance Criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Identify critical incident and consequences	<p>1.1 Critical incidents and probable implications are identified and analysed in accordance with enterprise procedures</p> <p>1.2 Secondary threats to situation are identified and monitored</p> <p>1.3 Data is evaluated to determine probable causes, consequences and potential responses</p> <p>1.4 Where appropriate, the teams and individuals roles and responsibilities within the team are identified and, where required, assist in the provision of the on-the-job training.</p>
2 Establish contingency plan	<p>2.1 Contingency plans are identified using relevant enterprise documentation, data and procedures</p> <p>2.2 Requirements for additional resources are identified</p> <p>2.3 Alternate contingencies to cater for crisis variations are developed in consultation with team members</p>
3 Establish communications	<p>3.1 Communication links with appropriate external authorities for coordination of their resources are established</p> <p>3.2 Communication with appropriate key stakeholders is established to disseminate information</p> <p>3.3 Team roles, both internal and external, are designated and conveyed to appropriate personnel in accordance with enterprise</p>

ELEMENT	PERFORMANCE CRITERIA
	procedures
4 Manage critical incident	4.1 Response is managed in accordance with enterprise/site requirements and allowances for personnel/equipment limitations are made
	4.2 Events and responses are prioritised taking into account needs of stakeholders
	4.3 Implications of personnel and key stakeholder actions are monitored and analysed
	4.4 Impact of secondary threats are identified and assessed
	4.5 Contingency plans are actioned in accordance with enterprise/site policy and procedure
	4.6 Additional resources are coordinated and directed in accordance with enterprise procedures
	4.7 Restoration strategies are monitored, evaluated and adjusted as necessary
5 Document and review incident and response	5.1 Equipment failure/problems are recorded and processed in accordance with enterprise procedures
	5.2 Feedback from stakeholders is recorded where necessary and analysed in accordance with enterprise procedures
	5.3 Required reports, findings and alternative preventative measures are generated and distributed to appropriate personnel in accordance with enterprise procedures
	5.4 Improvements to the critical incident management process are recommended and approved in accordance with enterprise procedures
	5.5 Alternative contingencies are analysed, evaluated and recommendations are communicated to appropriate personnel

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

8) This describes the essential skills and knowledge and their level, required for this unit.

Evidence shall show that knowledge has been acquired managing critical incidents.

The extent of the Essential Knowledge and Associated Skills required follows:

KS01-PO523A Critical incident

T1 Evidence shall show that knowledge has been acquired for safe working practices of:

- Relevant environmental, occupational health and safety legislation and regulations

- Enterprise procedures
- Plant drawings and manufacturers manuals
- Introduction to and typical arrangements of power production plant
- Relevant plant and equipment, its location and operating parameters
- Plant status
- Enterprise recording procedures
- System/network characteristics
- Contingency plans
- Supervisory, alarm, protection and control equipment
- Load shedding principles
- Control and data acquisition systems
- Switching practices and procedures

T2 Specific skills needed to achieve the Performance Criteria:

- Interpret plant drawings and manufacturers manuals
- Apply enterprise recording procedures
- Manage and control system/network
- Identify plant status
- Communicate effectively
- Apply data analysis techniques and tools
- Identify and respond to abnormal system operating conditions
- Plan and prioritise work
- Coordinate the operation of system/network to maintain plant integrity, personnel safety, continuity of supply and optimum efficiency
- Apply stress management techniques
- Direct and coordinate personnel
- Select appropriate load shedding
- Apply diagnostic techniques.

Evidence Guide

EVIDENCE GUIDE

9) This provides essential advice for assessment of the competency standard unit and must be read in conjunction with the Performance Criteria and the Range Statement of the unit and the Training Package Assessment Guidelines.

The Evidence Guide forms an integral part of this competency standard unit and shall be used in conjunction with all components parts of this unit and, performed in accordance with the Assessment Guidelines of this Training Package.

Overview of Assessment 9.1)

Longitude competency development approaches to assessment, such as Profiling, require data to be reliably gathered in a form that can be consistently interpreted over time. This approach is best utilised in Apprenticeship programs and reduces assessment intervention. It is the Industry preferred model for apprenticeships. However, where summative (or final) assessment is used it is to include the application of the competency in the normal work environment or, at a minimum, the application of the competency in a realistically simulated work environment. It is recognised that, in some circumstances, assessment in part or full can occur outside the workplace. However, it must be in accord with Industry and regulatory policy.

Methods chosen for a particular assessment will be influenced by various factors. These include the extent of the assessment, the most effective locations for the assessment activities to take place, access to physical resources, additional safety measures that may be required and the critical nature of the competencies being assessed.

The critical safety nature of working with electricity, electrical equipment, gas or any other hazardous substance/material carries risk in deeming a person competent. Hence, sources of evidence need to be 'rich' in nature so as to minimise error in judgment. Activities associated with normal every day work have a bearing on the decision as to how much and how detailed the data gathered will contribute to its 'richness'. Some skills are more critical to safety and operational requirements while the same skills may be more or less frequently practised. These points are raised for the assessors to consider when choosing an assessment method and developing assessment instruments. Sample assessment instruments are included in the Assessment Guidelines of this Training Package.

**Critical aspects
of evidence
required to
demonstrate
competency in
this unit** 9.2)

Before the critical aspects of evidence are considered all prerequisites shall be met.

Evidence for competence in this unit shall be considered holistically. Each element and associated Performance Criteria shall be demonstrated on at least two occasions in accordance with the “Assessment Guidelines – UEP12”. Evidence shall also comprise:

- A representative body of work performance demonstrated within the timeframes typically expected of the discipline, work function and industrial environment. In particular this shall incorporate evidence that shows a candidate is able to:
 - Implement Occupational Health and Safety workplace procedures and practices including the use of risk control measures as specified in the Performance Criteria and Range Statement
 - Apply sustainable energy principles and practices as specified in the Performance Criteria and Range Statement
 - Demonstrate an understanding of the essential knowledge and associated skills as described in 6) Essential Knowledge and Associated Skills of this unit
 - employability skillsConduct work observing the relevant Anti Discrimination legislation, regulations, polices and workplace procedure
- Demonstrated performance across a representative range of contexts from the prescribed items below:
 - The knowledge and application of relevant sections of: Occupational Health and Safety legislation; Statutory legislation; Enterprise/site safety procedures; Enterprise/site emergency procedures
 - Knowledge of emergency procedures
 - Knowledge of the rolls of external authorities/bodies
 - Ability to establish and manage emergency situations
 - Ability to tactical decision making techniques
 - Policies for system incident and follow up procedures
 - Dealing with an unplanned event by drawing on essential knowledge and skills to provide appropriate solutions

incorporated in the holistic assessment with the above listed items.

Context of and specific resources for assessment **9.3)**

This unit should be assessed as it relates to normal work practice using procedures, information and resources typical of a workplace. This should include:

- OHS policy and work procedures and instructions.
- Suitable work environment, facilities, equipment and materials to undertake actual work as prescribed by this unit.

Competency Standards should be assessed in the workplace or simulated workplace and under the normal range of workplace conditions.

Assessment of this unit will be supported with documentary evidence, by means of endorsement stating type and application of work.

In addition to the resources listed above in Context of assessment', evidence should show competency working in limited spaces with different types of plant and equipment as well as different structural/construction types and methods and in a variety of environments.

Method of assessment **9.4)**

This unit shall be assessed by methods given in Section 1.3.00 Assessment Guidelines.

Note:

Competent performance with inherent safe working practices is expected in the Industry to which this unit applies. This requires that the specified essential knowledge and associated skills are assessed in a structured environment which is primarily intended for learning/assessment and incorporates all necessary equipment and facilities for learners to develop and demonstrate the essential knowledge and skills described in this unit.

**Concurrent
assessment and
relationship with
other units** **9.5)**

There are no recommended concurrent assessments with this unit, however in some cases efficiencies may be gained in terms of learning and assessment effort being concurrently managed with allied competency standard units where listed.

Nil

Range Statement

RANGE STATEMENT

10) This relates to the competency standard unit as a whole, providing the range of contexts and conditions to which the Performance Criteria apply. It allows for different work environments and situations that will affect performance.

Safety standards may include relevant sections of Occupational Health and Safety legislation, enterprise safety rules, relevant State and federal legislation, national standards for plant.

Information and documentation sources may include verbal or written communications; enterprise safety rules documentation; enterprise operating instructions; dedicated computer equipment; enterprise/site standing and operating instructions; enterprise log books; manufacturer's operation and maintenance manuals; and equipment and alarm manuals.

Technical and operational indicators may include stimuli (audio, smell, touch, visual), local indicators and recorders, computers and alarms (visible and or audible).

Communications may be by means of telephone, two way radio, pager, computer (electronic mail) and operating logs (written or verbal).

Appropriate personnel, team members/other authorities may include supervisor/team leader or equivalent, power plant operations personnel or equivalent, technical and engineering officers or equivalent, maintenance staff, other operating staff or equivalent, system controller, field operators, restricted operators, emergency personnel, network controllers/coordinators, generation controllers, plant operators, field operators, support staff, fire service, police, ambulance, emergency services, enterprise and site representatives, consumers and independent power producers.

Operating environment may be: remote from plant and equipment being operated (operation is assisted by remote indicators of plant status and other parameters monitored), during inclement or otherwise harsh weather conditions, in wet/noisy/dusty areas or during night periods.

Unit operations may include spurious faults in automatic systems, automatic systems operating out of range, failure of automatic system components and routine plant movement.

Types of incident may include localised blackout, interconnected/isolated power system potential power system threat, accidents, life threatening situations, generation plant and auxiliary plant faults/failure and loss of network and generation components, natural and environmental disasters.

System conditions may be: voltage profiles, spare plant, generation/transmission capability limits, variation from normal trends and switching.

Documentation may include policy, procedure, standard operating instructions, contingency plans and emergency switching programs.

Liaison with key stakeholders may be system/network controllers/coordinators, oncoming shift change, field operators, support staff, asset centres, patrolmen, customers, other government bodies, co-generation authorities, generation plant operators, on call staff, police, fire and emergency services and private systems.

Post incident debrief may be: probable fault/failure cause, strategic/contingency plan, environmental implications, economic factors, policy, procedure, training, safety factors and emergency switching programs.

RANGE STATEMENT

Generic terms are used throughout this Training Package for vocational standard shall be regarded as part of the Range Statement in which competency is demonstrated. The definition of these and other terms are given in Section 2.1 Preliminary Information and Glossaries.

Unit Sector(s)

Not applicable.

Competency Field

Competency Field	11)
	Operations