

COGESA3.2.12A

Contribute to the investigation of explosives safety incidents



Overview

This unit identifies the competences you need to assess an organisation's safety management system.

Your responsibilities will require you to gather and validate relevant information and confirm the intended use, operation/functioning of the explosive substance or article and its intended environments. You need to implement your responsibilities in accordance with the investigation plan, identify and interview those people involved in or affected by the incident, obtaining valid information and evidence from which to substantiate your findings objectively. You need to establish the likely root cause of the incident and make practicable recommendations for improvement. You will be working with all those involved i.e. management, colleagues, witnesses and experts, individually and collaboratively. You will be carrying out assurance audits in relation to facilities, people, processes and documentation. You will be required to report any problems with the explosive safety management activities that you cannot personally resolve, or that are outside your permitted authority to the relevant people. You will be expected to work to verbal/written instructions and standard operating procedures with a minimum of supervision, taking personal responsibility for your own actions and for the quality and accuracy of the work that you and your team carry out.

Your underpinning knowledge will be sufficient to provide a sound basis for your work and will enable you to adopt an informed approach to understanding the purpose of the explosives safety management system and best practice within it, the relevance of any explosives-related activities and how these might affect the incident, the organisation's explosives-related structure and systems relevant to the investigation, the competence of the personnel involved in the incident, sources of information that might inform your investigation and the potential effects of the incident. You will have an understanding of the attributes and behaviours required for working safely in adequate depth to provide a sound background for carrying out the safety management activities to the required specification.

You will understand the precautions required when carrying out the safety management activities for explosive substances and articles. You will be required to demonstrate safe working practices throughout and will understand your responsibility for taking the necessary safeguards to protect yourself and others in the workplace.

COGESA3.2.12A

Contribute to the investigation of explosives safety incidents

Performance criteria

- You must be able to:*
- P1 work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
 - P2 implement your responsibilities in accordance with the investigation plan
 - P3 identify those people who should be interviewed in accordance with the investigation plan
 - P4 interview those involved in or affected by the incident in accordance with the plan and your organisation's procedures
 - P5 obtain valid information and evidence in accordance with the plan and your organisation's procedures
 - P6 substantiate your findings from an objective analysis of the available evidence
 - P7 establish the likely root cause(s) of the incident in accordance with your role in the investigation plan
 - P8 make practicable recommendations for improvement
 - P9 report the results of your investigation in the appropriate format

COGESA3.2.12A

Contribute to the investigation of explosives safety incidents

Knowledge and understanding

You need to know and understand:

- K1 the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives and their implications for your area of work
- K2 the relevance of personal protective equipment (PPE)
- K3 the nature, characteristics, hazards and risks of the explosive substances and/or articles
- K4 the actions to be taken in response to an unplanned event
- K5 the purpose of the explosives safety management system for explosive substances and/or articles
- K6 best practice in explosives safety management
- K7 the relevance of any explosives-related activities and how these might affect the incident
- K8 the organisation's explosives-related structure and systems relevant to the investigation
- K9 the competence of the personnel involved in the incident
- K10 sources of information that might inform your investigation and how to access them
- K11 the process being operated when the incident occurred
- K12 the potential effects of the incident
- K13 reporting lines and procedures

COGESA3.2.12A

Contribute to the investigation of explosives safety incidents

Additional Information

Scope/range related to performance criteria

The numbers of scope items specified (below) indicate the minimum requirements for this Occupational Standard.

- 1 Work with those involved in **all** of the following categories:
 - 1.1 management
 - 1.2 colleagues
 - 1.3 witnesses
 - 1.4 experts

- 2 Work within the scope of the investigation in **both** of the following categories:
 - 2.1 individually
 - 2.2 collaboratively

COGESA3.2.12A

Contribute to the investigation of explosives safety incidents

Developed by Cogent

Version number 1

Date approved August 2009

Indicative review date August 2011

Validity Current

Status Original

Originating organisation SEMTA

Original URN Unit 2.12A

Relevant occupations Science and mathematics; Science; Engineering; Science and Engineering Technicians; Process, Plant and Machine Operatives

Suite EXPLOSIVES SUBSTANCES AND ARTICLES SUITE 3 2009

Key words Health, safety and environmental, statutory legislation, regulations, classification application process, nature, characteristics, hazards and risks, unplanned event,