

Generate design options for explosive articles

Overview

This standard exists within a research and development role and covers the competences you need to generate design options for explosive articles in accordance with approved procedures and practices.

You will be required to demonstrate that you can confirm your understanding of the design requirements. Identifying and develop design options, in sufficient detail to enable evaluation in accordance with approved procedures and practices.

This activity is likely to be undertaken by someone whose work role involves Ordnance, Munitions or Explosives work activities. This includes people working as design managers and development managers.

This standard replaces COGESA1.21.

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 confirm your understanding of the design requirements
- P3 deal with problems relating to the design requirements
- P4 identify and develop design options, in sufficient detail to enable evaluation
- P5 prepare costings and timescale, in accordance with the specification
- P6 document all generated design options
- P7 present your findings in the correct format
- P8 maintain the requirements of confidentiality at all times

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 required functioning of the explosive substance or article
- K6 current thinking within your own specialism
- K7 information sources and document systems
- K8 the requirements of the structure and content of the design specification and the factors that may impact on your design
- K9 communication techniques
- K10 reporting lines
- K11 your own level of authority and that of others you work with
- K12 the requirements of confidentiality

Scope/range

These standards may be limited by the following;

1. Information sources: informal; internal specifications; external publications
2. People: your manager; the customer
3. Format: verbal; written

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Originating Organisation Cogent

Original URN This standard replaces COGESA1.21.

Relevant Occupations Engineering and Manufacturing Technologies, Process, Plant and Machine Operatives, Science and Engineering Technicians, Science and Mathematics Science

Suite Explosive Substances and Articles: Research, Design and Development

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