

Evaluate design options for explosive articles

Overview

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

You will be required to demonstrate that you can evaluate and prioritize design options, against the specification. Recommending the most appropriate design option and detailing the supporting evidence 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, development managers and researchers.

This standard replaces COGESA1.22 and includes COGESA 1.23.

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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 and agree your understanding of the design requirements and identified factors
- P3 obtain and review information that will affect the design
- P4 evaluate and prioritize design options, against the specification
- P5 recommend the most appropriate design option, detailing supporting evidence
- P6 confirm that the costings and timescale for the most appropriate design option are in accordance with the specification
- P7 prepare options in the correct format, acknowledge all sources and the need for any further investigation.
- P8 maintain the requirements of confidentiality at all times

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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 and policies for the design of explosive articles
- K7 the requirements of the structure and content of the design specification, and the factors that may impact on the design
- K8 evaluation techniques
- K9 communication techniques
- K10 reporting lines
- K11 your own level of authority, and that of others you work with
- K12 the requirements of confidentiality

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Scope/range

- 1 Level and extent of responsibility: removal of the lowest sub-assembly and routine testing; carrying out routine removal tasks on complex systems under the supervisor's direction
- 2 Types of removal procedures and activities: non-critical routine removal of explosive articles; critical routine removal where sign-off by a supervisor is required

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