
Overview

This standard covers the competences you need to analyse the acceptability of safety control measures for specific explosive substances and/or articles, in accordance with approved procedures and practices.

You will be required to demonstrate that you can establish that the environments the explosives are exposed to and evaluate risks and the customers proposed mitigation strategies. You will then either confirm the acceptability of the proposed safety control measures or make recommendations to amend them in accordance with approved procedures and practices.

This activity is likely to be undertaken by someone whose work role involves Weapons, Ordnance, Munitions or Explosives work activities. This includes individuals working as explosives safety managers, advisers and regulators.

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 establish any discrepancies between the intended and actual environments in which the explosive substance and/or article is exposed to during its life
 - P3 ensure that the information provided is current, complete, accurate and valid
 - P4 evaluate the risks as presented by the customer, against the agreed criteria
 - P5 evaluate the customer's proposed mitigation strategies against the agreed risk tolerability criteria
 - P6 give your customer feedback on developments during the course of your assessment
 - P7 confirm the acceptability of the proposed safety control measures or make recommendations according to the findings of your analysis
 - P8 inform your customer promptly of the findings of your assessment

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 safety design requirements of the explosive substance or article
 - K6 the potential interface with other equipments/systems that might compromise safety
 - K7 the functioning of the explosive substance or article
 - K8 the current point in the life of the explosive substance or article
 - K9 sources of information and relevant guidance
 - K10 how to evaluate and validate information
 - K11 the hazard assessment process
 - K12 any specific requirements
 - K13 the tolerances of the explosive substance or article, in terms of the environment
 - K14 the agreed criteria against which to carry out your evaluation
 - K15 the factors affecting risk tolerability
 - K16 how the risk tolerability criteria are established
 - K17 the acceptability of the proposed control measures
 - K18 the requirements of the organization's safety management system
 - K19 your customer, their level of technical understanding, and their needs
 - K20 the importance of documenting your recommendations, actions and your rationale

Scope/range

- 1 Information: complete; incomplete
- 2 Explosives safety management system: where requirements are met; where requirements are not met
- 3 Reviews: planned; unplanned

Note: this standard is relevant to the following areas: design of ESA; test programmes; mitigations; cautions; constraints; restrictions of use; transport; storage or any other functional area; facilities required/requirements; incident management and emergency procedures; changes to ESA policy and/or legislation

Analyse the acceptability of safety control measures for specific explosive substances and/or articles

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