

Plan the trial of explosive substances and/or articles

Overview

This standard covers the competences you need to plan the trial of explosive substances and/or articles in accordance with approved procedures and practices.

You will be required to demonstrate that you can identify and obtain resource requirements that are appropriate to the trial, ensuring that hazard and risk assessments are carried out 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 people working as test and evaluation managers.

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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 the appropriate trials procedure
 - P3 make effective use of appropriate modelling tools
 - P4 confirm the fitness for purpose of the proposed trial site
 - P5 incorporate the requirements of additional tasks to be carried out concurrently into the trials plan
 - P6 identify and obtain resource requirements that are appropriate to the trial
 - P7 allocate responsibilities appropriately
 - P8 produce a clear and accurate trials plan
 - P9 ensure that hazard and risk assessments are carried out
 - P10 agree deliverables with the customer with agreed interim reviews
 - P11 obtain the approval to changes made to the plan in the correct format
 - P12 develop contingencies to accommodate identified difficulties
 - P13 ensure that any issues, relating to the segregation and disposal of process residues and products have been addressed in the plan
 - P14 maintain the requirements of confidentiality at all times
 - P15 adhere to the relevant quality standards
 - P16 take action to resolve and record problems

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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 substance and/or article
 - K4 the actions to be taken in response to an unplanned event
 - K5 the anticipated results of the trial
 - K6 the factors relevant to the trial
 - K7 the agreed trials procedure
 - K8 the objectives of the trial
 - K9 trial resources needed and any constraints attached to them
 - K10 the competences of the personnel involved
 - K11 the types of test equipment and their application
 - K12 planning tools and project management
 - K13 principles
 - K14 how to write trial plans
 - K15 why hazard and risk assessments are required and how to get them produced pre- and post-trial
 - K16 the control of business risk and contingency/emergency planning
 - K17 how to dispose of explosive substances and/or articles residues arising from the trial
 - K18 the role of peer review
 - K19 your own level of authority, and that of others with whom you work
 - K20 any confidentiality requirements
 - K21 the relevant quality standards and compliance regime
 - K22 when to refer to others for more information or a second opinion

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Scope/range

1. Complexity: high negative consequence; numerous interrelated tests or activities; variable outcomes
2. Resources: fully equipped; with limited resources; from other organizations
3. Reviews: where the customer agrees the plan; where changes are needed following discussions with the customer
4. Hazards and risks caused by: complexity of the explosive substances and/or articles; condition of the explosive substances and/or articles; primary hazards; secondary hazards

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