

Plan the test of explosive substances and/or articles

Overview

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

You will be required to demonstrate that you can produce a clear and accurate test plan that is capable of delivery within the constraints of cost and timescales. 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 supervisors.

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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 ensure you have the correct test procedure
 - P3 confirm the fitness for purpose of the proposed trial site
 - P4 incorporate into the test plan the requirements of additional tasks to be carried out concurrently
 - P5 identify and obtain resource requirements that are appropriate to the test
 - P6 ensure that the facilities are fit for purpose
 - P7 allocate responsibilities appropriately
 - P8 produce a clear and accurate test plan that is capable of delivery within the constraints of cost and timescale
 - P9 ensure that hazard and risk assessments are carried out
 - P10 confirm the deliverables with the customer with agreed interim reviews
 - P11 ensure that any issues relating to the segregation and disposal of process residues and products have been addressed in the plan
 - P12 obtain agreement to the plan
 - P13 maintain the requirements of confidentiality at all times
 - P14 adhere to the relevant quality standards
 - P15 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 test
 - K6 the factors relevant to the test
 - K7 the agreed test procedure
 - K8 the objectives of the test
 - K9 test resource constraints
 - K10 the competences of the personnel involved
 - K11 the types of test equipment and their application
 - K12 planning tools and project management principles
 - K13 how to write test plans
 - K14 why hazard and risk assessments are required and how to get them produced
 - K15 contingency/emergency planning
 - K16 how to dispose of explosive substances and/or articles residues arising from the test
 - K17 the role of peer review
 - K18 your own level of authority and those of others with whom you work
 - K19 the relevant quality standards and compliance regime
 - K20 any confidentiality requirements
 - K21 when to refer to others for more information or a second opinion

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Scope/range

1. Resources: fully equipped; with limited resources
2. Complexity of the test: new tests; existing tests
3. Reviews: where the customer agrees the plan; where changes are needed following discussions with the customer
4. Hazards and risks caused by: condition of the explosive substances and/or articles; primary hazards; secondary hazards

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