

Plan the research into explosive substances and/or articles

Overview

This standard comprises the following elements:

1. Decide the research protocols for explosive substances and/or articles.
2. Draw up research plans for explosive substances and/or articles.

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 research leaders.

Performance criteria

- You must be able to:*
1. Decide the research protocols for explosive substances and/or articles.
 - P1 work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
 - P2 establish the evaluation criteria to determine the success of the research
 - P3 review critically and assess the suitability of existing methods, techniques and apparatus
 - P4 select the methods, techniques and apparatus for the purpose of the research
 - P5 adapt existing methods, techniques and apparatus before new ones are developed
 - P6 pilot new methods, techniques and apparatus, testing and evaluating their fitness for purpose and making modifications
 - P7 develop new methods, techniques and apparatus in line with regulatory guidelines
 - P8 report your findings in the correct format

 2. Draw up research plans for explosive substances and/or articles
 - P9 work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
 - P10 record the details of all methods, techniques and apparatus to be used
 - P11 specify in the plan the time and resource requirements of the research
 - P12 identify factors that might affect the timescale of the research and incorporate this information into the research plan
 - P13 specify the relationship or dependencies between research tasks
 - P14 make provision for compliance with any regulatory constraints
 - P15 include detailed evaluative success criteria
 - P16 report your findings in the correct format
 - P17 maintain the requirements of confidentiality at all times

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Knowledge and understanding

You need to know and understand: 1. Decide the research protocols for explosive substances and/or articles.

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 your organization's operational policies and objectives K6 the requirements of the research strategy
 K7 the business risks of the research strategy
 K8 the range of possible methods to achieve the desired outcomes and their relative advantages and disadvantages
 K9 methods for evaluating the fitness for purpose of the methods, techniques and apparatus
 K10 methods for evaluating the success of the research K11 problem solving techniques
 K12 the impact of the cost of developing or adapting new methods, techniques and apparatus

2. Draw up research plans for explosive substances and/or articles

K13 the health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives and their implications of your area of work
 K14 the relevance of personal protective equipment (PPE) K15 the nature, characteristics, hazards and risks of the explosive substances and/or articles
 K16 the actions to be taken in response to an unplanned event
 K17 your organization's operational policies and objectives K18 the requirements of the research programme and protocol
 K19 the business risks of the research programme K20 the resources available K21 project management techniques
 K22 the deadline for each research task
 K23 the significance and impact of any relationship or dependencies between research tasks
 K24 any specific requirements for the format of the research plan
 K25 methods for evaluating the success of the research K26 problem solving

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techniques

K27 the requirements of confidentiality

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Scope/range

1. Scope of the research; individually; collaboratively
2. Resources: with limited resources; with full resources

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