

Plan the research into explosive substances and/or articles

Overview

This standard exists within a research and development role and comprises of the following elements:

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

This activity is likely to be undertaken by someone whose work role involves Ordnance, Munitions or Explosives (OME) work activities. This includes individuals working as research leaders.

This standard replaces COGESA1.9.

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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. Draft 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

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. Draft 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 techniques
 - K27 the requirements of confidentiality

Scope/range

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

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**Originating
Organisation** SEMTA

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**Relevant
Occupations** Science and mathematics Science; Science; Engineering; Science and
Engineering Technicians; Process, Plant and Machine Operatives

Suite Explosive Substances and Articles

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