

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.

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

1. 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

1. 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

Plan the research into explosive substances and/or articles

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

Plan the research into explosive substances and/or articles

Scope/range

These standards may be limited by the following;

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

Plan the research into explosive substances and/or articles

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Validity Current

Status Original

Originating Organisation Cogent

Original URN This standard replaces COGESA1.9.

Relevant Occupations Engineering and Manufacturing Technologies, Process, Plant and Machine Operatives, Science and Engineering Technicians, Science and Mathematics Science

Suite Explosive Substances and Articles: Research, Design and Development

Keywords Specification, health and safety, environmental, information, methods, techniques testing and evaluating
