
Overview

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

1. Carry out investigations into explosive substances and/or articles
2. Analyse and evaluate research information on explosive substances and/or articles

This activity is likely to be undertaken by someone whose work role involves Ordnance, Munitions or Explosives work activities. This includes people working as researchers, research leaders, design managers and development managers

This standards replaces COGESA1.11.

Performance criteria

You must be able to: 1. Carry out investigations into 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 Develop a research plan and set up the investigation in line with the research plan

P3 use methods, techniques and apparatus in line with the procedures

P4 document any unexpected outcomes or incidents as they occur

P5 report any delays or problems experienced to all interested parties and adjust the research plan

P6 pay attention to hazards and risks arising from the investigation and take steps to minimize them

P7 document the details of the investigation and its outcomes in the format suitable for further use

P8 maintain the requirements of confidentiality at all times

2. Analyse & evaluate research information on 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 select, adapt or devise new techniques of analysis and evaluation that are fit for purpose

P11 manage the evaluation when it is carried out by others, providing a clear and specific brief and ensure the consistency of the evaluation

P12 ensure that the analysis and evaluation techniques are cost-effective and can be applied using the available resources

P13 verify the correctness and quality of the analysis using accepted and valid techniques

P14 confirm your conclusions through the peer review process and act on the resulting feedback

P15 record the results of the analysis in the correct format

P16 meet your deadlines, taking action in the event of delays

P17 deliver the agreed outputs within budget or take action in the case of expected overspends

P18 maintain the requirements of confidentiality at all time

Carry out investigations and analyse the information collected on explosive substances and/or articles



Knowledge and understanding

You need to know and understand:

1. Carry out investigations into 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 programme and plan
- K7 the stakeholders and the nature of their interest
- K8 project management techniques
- K9 the availability and suitability of equipment
- K10 the availability, strengths and limitation of the research team
- K11 the deadline for each research task
- K12 the significance and impact of any relationships or dependencies between research tasks
- K13 problem solving techniques
- K14 the possible courses of action open to you to minimize risks or hazards
- K15 your own level of authority and that of others with whom you work
- K16 reporting lines
- K17 the requirements of confidentiality substances and/or articles

Carry out investigations and analyse the information collected on explosive substances and/or articles



2. Analyse and evaluate research information on explosive substances and/or articles

K18 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

K19 the relevance of personal protective equipment (PPE)

K20 the nature, characteristics, hazards and risks of the explosive substances and/or articles

K21 the actions to be taken in response to an unplanned event

K22 your organization's operational policies and objectives

K23 the requirements of the research programme and plan

K24 the basis on which you would carry out the evaluation yourself, delegate it to your team or contract out to an external organization

K25 the nature of any conflict of interest

K26 any specific quality requirements

K27 the deadline for the evaluation phase

K28 your available budget and any constraints

K29 problem solving techniques

K30 the peer review process

K31 your own level of authority and that of others with whom you work

K32 reporting lines

K33 the requirements of confidentiality

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Scope/range

1. Scope of the investigation; individually; collaboratively with internal colleagues; collaboratively with external colleagues
2. Interested parties: research team; project Steering Groups; external collaborators
3. Risks relating to: people; the organization; the research programme; confidentiality; facilities; materials; equipment; services failure
4. Analytical and evaluation techniques: established; adapting established techniques
5. Resources: human; financial; time
6. Conduct of the evaluation: by yourself; by colleagues
7. Reporting results: in writing; verbally

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Developed by	Cogent
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Date Approved	March 2024
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Indicative Review Date	March 2029
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Validity	Current
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Status	Revised and now includes COGESA 1.10
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Originating Organisation	SEMTA
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Previous URN	COGESA1.11
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Relevant Occupations	Science and mathematics Science; Science; Engineering and manufacturing technologies; Science and Engineering Technicians; Process, Plant and Machine Operatives
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Suite	Explosive Substances and Articles
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Keywords	Investigations, analyse, evaluate, research information
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