
Overview

This standard covers the competences you need to design a new test procedure for explosive substances and/or articles in accordance with approved procedures and practices.

You will be required to demonstrate that you can confirm with the customer the requirement for the test to be carried out, identifying the information and factors relevant to the test 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.

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 confirm with the customer the requirement for the test to be carried out
 - P3 identify the information and factors relevant to the test
 - P4 confirm that there are no suitable existing test procedures
 - P5 ensure that the procedure meets the customer's requirement
 - P6 include organizational factors in addition to the customer's requirements, that are likely to add value to the outline design
 - P7 obtain agreement through a peer and customer review
 - P8 design a test that is fit for purpose
 - P9 develop a safe system of work
 - P10 identify other potentially valuable outcomes that could be delivered concurrently
 - P11 adhere to the relevant quality standards
 - P12 document the agreed process, in the appropriate format

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 functioning of the explosive substance or article
 - K6 the information and factors relevant to the test
 - K7 the objectives
 - K8 sources of relevant information
 - K9 the basis on which explosives test procedures are designed
 - K10 why an existing procedure is not suitable
 - K11 document control procedures
 - K12 the resources needed to carry out the test
 - K13 how to dispose of explosive substances and/or articles residues arising from the test
 - K14 the role of peer and customer review
 - K15 what might constitute value to your customer and/or your organization
 - K16 your own level of authority
 - K17 the relevant quality standards and compliance regime
 - K18 the impact of the hazards and risks associated with the procedure and conditions

Scope/range

1. Technical, and legal implications: safety; environmental impact
2. Sources of information: databases; publications; informal sources of information
3. Information: with access to complete information; with access to incomplete information

Developed by	Cogent
Version Number	2
Date Approved	November 2017
Indicative Review Date	November 2020
Validity	Current
Status	Original
Originating Organisation	SEMTA
Original URN	ESA3.4
Relevant Occupations	Science and mathematics Science; Science; Engineering; Science and Engineering Technicians; Process, Plant and Machine Operatives
Suite	Explosive Substances and Articles
Keywords	Design, test, procedure, explosives, health and safety, statutory legislation, regulation
