

---

## Overview

This standard exists within a research and development role and covers the competences you need to create the specification for an explosive substance and/or article in accordance with approved procedures and practices.

You will be required to demonstrate that you can explain, identify or confirm the needs of the customer, and any other relevant stakeholder, and the basis for any decisions. Identifying accurately any operational constraints that could affect the specification of the explosive substance or article in accordance with approved procedures and practices.

This activity is likely to be undertaken by someone whose work role involves Ordnance, Munitions or Explosives (OME) work activities. This includes individuals who are responsible for research, design or development and whose work involves identifying solutions to meet customers' requirements in creating specifications of OME.

This standard replaces COGESA 1.1 and 1.2.

---

## 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 identify or confirm accurately the customer's underlying needs
- P3 assess objectively the feasibility of the customer's requirement
- P4 determine objectively the best methods by which these needs can be addressed
- P5 explain fully and clearly to the customer, and any other relevant people, the basis for any decisions
- P6 identify accurately any operational constraints that could affect the research and development of the explosive substance or article
- P7 provide relevant advice to the customer, expressed in a way that meets their requirements
- P8 alert your manager promptly to any additional information or implications that may be in the customer's best interests
- P9 consult others who may be affected, and build their feedback into your specification
- P10 create a specification that clearly addresses all the customer's requirements and the success criteria
- P11 create a clear and concise specification that contains sufficient detail to enable research planning to take place
- P12 confirm the customer's level of satisfaction, and use the information to make further improvements
- P13 maintain the requirements of confidentiality at all times

---

## 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 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 how to carry out a feasibility study
- K7 how to establish success criteria
- K8 the underlying needs of the customer's requirements
- K9 alternative options for meeting the customer's needs
- K10 when and how to advise that the customer should pursue a different course of action
- K11 the constraints that may affect your decisions and plans
- K12 the intellectual property requirements for the build processes
- K13 your own level of authority, and that of others with whom you work
- K14 the requirements of confidentiality

---

## Scope/range

These standards may be limited by the following;

1. Customer requirements: where a detailed technical requirement is provided;  
where a general description of requirements is provided
2. Constraints: resource limitations; possible conflicts of interest
3. Solutions for addressing customer needs: existing; adaptations to existing solutions.

<b>Developed by</b>	Cogent
<b>Version Number</b>	3
<b>Date Approved</b>	30 Apr 2024
<b>Indicative Review Date</b>	30 Mar 2029
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating Organisation</b>	Cogent
<b>Original URN</b>	Revised and includes COGESA1.1
<b>Relevant Occupations</b>	Engineering and Manufacturing Technologies, Process, Plant and Machine Operatives, Science and Engineering Technicians, Science and Mathematics Science
<b>Suite</b>	Explosive Substances and Articles: Research, Design and Development
<b>Keywords</b>	Specification, health and safety, environmental, customer's, operational constraints