

Resolve operational manufacturing problems

Overview

This standard takes place within the manufacture of explosives, substances or articles, where you will be required to demonstrate that you are able to resolve operational manufacturing problems.

You will identify the likely cause(s) of problems, evaluate the impact and deal promptly with the problems that arise, identify the most appropriate solution and report / communicate to the appropriate people.

This activity is likely to be undertaken by someone whose work role involves Ordnance, Munitions or Explosives (OME) work activities. This includes those working as manufacturing managers and supervisors.

This standard replaces COGESA 4.03.

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 immediately report any problem or abnormality that requires the attention of supervisor or specialist

P3 verify that the appropriate operating instructions are being used correctly

P4 verify that the equipment being used is in a safe and functional condition

P5 verify the integrity of the materials being used

P6 ensure that the equipment operating parameters have been maintained

P7 identify the possible stage(s) in the process where the problem has occurred

P8 identify the likely cause(s) of the problem

P9 evaluate the likely impact of the problem

P10 identify the most appropriate solution to the problem

P11 ensure that you have the necessary authority to implement the solution

P12 implement the chosen solution with a minimum amount of disruption

P13 evaluate the implementation of the solution and make recommendations for further improvements

P14 report on the implementation of your solution to the appropriate people

P15 complete the required reporting documentation, in accordance with organisational procedures.

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 actions to be taken in response to an unplanned or abnormal event

K4 work area hazards

K5 the material specification

K6 the characteristics and nature of the material(s) being processed

K7 the importance of the operating parameters

K8 the functions and uses of the different types of equipment used and how to verify the status of the equipment

K9 the interaction between the materials and the equipment being used

K10 problem solving techniques

K11 the importance of an appropriate response to the situation

K12 the action to be taken to minimize disruption, loss and damage

K13 the importance of communication

K14 the documentation requirements

K15 the authorization process

K16 how to implement the chosen solution

K17 the different courses of action open to you to solve problems

Scope/range

- 1 Explosive environments: low negative consequence; high negative consequence
- 2 Problems relating to: safety; cost; quality; yield
- 3 Solutions relating to: safety; cost; quality; yield

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Developed by Cogent

Version Number 3

Date Approved 30 Jun 2025

Indicative Review Date 30 Jun 2029

Validity Current

Status Original

Originating Organisation Cogent

Original URN This standard replaces COGESA 4.03

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

Suite Explosives Substances and Articles: Manufacture

Keywords Resolve, explosives, operational, manufacturing, implement.
