
Overview

This standard takes place within a role involving the manufacture of explosives, substances or articles where you will be required to demonstrate that you can validate the use of new explosives processes and equipment, and optimize or modify what exists.

You will be required to demonstrate that you can maintain the safe operating parameters of the critical processes and confirm suitability.

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 and storage supervisors.

This standard replaces COGESA 4.02.

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 that you have the correct standard operating procedures

P3 ensure that the standard operating parameters are maintained

P4 confirm that the equipment to be used is in a safe and functional condition

P5 confirm the suitability of the equipment for the process

P6 deal promptly with any problems that arise, reporting any that you cannot solve and/or are not your responsibility

P7 complete the validation within the required constraints

P8 complete correctly the required documentation

P9 maintain the requirements of confidentiality at all times

P10 define the process to be optimized and your optimization objectives

P11 ensure that your final measurements indicate an improvement over your control measurements

P12 design and implement systems that can sustain the improvements

P13 ensure that appropriate action is taken to minimize waste in the process

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 work area hazards

K6 the requirements of the processing plan for the validation, and any specific security

K7 the relevance and importance of monitoring process conditions

K8 the importance of critical operating parameters

K9 the functions and uses of the different types of equipment used in the operation and how to confirm the status of equipment

K10 the corrective action to take on discovering defective conditions, materials and/or equipment

K11 problem solving techniques

K12 reporting lines and procedures

K13 the requirements of documentation

K14 the limitations of the equipment

K15 waste management procedures

Scope/range

1. Explosive environments: low negative consequence; high negative consequence
2. Constraints: safety; cost; quality; yield
3. Optimization relating to: safety; cost; quality; yield
4. Evaluation against: performance norms; performance targets; historical performance

COGESAKR4.02

Validate and optimise new or modified explosives processes and equipment



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