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## Overview

This standard comprises the following elements:

1. Prepare drawings for complex explosive article prototype(s).
2. Carry out assembly-related activities to build complex explosive article prototype(s).

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 senior research leaders working at strategic level with organizations outside their own.

## Performance criteria

### *You must be able to:*

#### 1. Prepare drawings for complex explosive article prototype(s)

- P1 work safely at all times, complying with health and safety, environmental and other relevant regulations, legislation and guidelines
- P2 use up-to-date standards and technical requirements
- P3 identify the features required for the drawings and material specifications
- P4 identify the formats and conventions to be used
- P5 deal with any problems associated with the technical information and its interpretation
- P6 produce drawings, assembly procedures or sequences that are clear and concise
- P7 use codes and other references that follow the required conventions
- P8 obtain approval to drawings within agreed timescales by authorized people
- P9 ensure that drawings are properly registered and stored securely
- P10 maintain the requirements of confidentiality at all times

#### 2. Carry out assembly-related activities to build complex explosive article prototype(s)

- P11 work safely at all times, complying with health and safety and other relevant regulations, legislation and guidelines
- P12 confirm the requirements of the specification, and ensure that you have up-to-date documentation
- P13 confirm the availability and suitability of any resources required
- P14 obtain the required components where available and manufacture new ones where required by the specification
- P15 take adequate precautions to prevent damage to components, tools and equipment during assembly
- P16 construct the prototype(s) in the correct sequence using the approved tools and techniques
- P17 report any inaccuracies or discrepancies in drawings, specifications or components and take action within your level of authority
- P18 record and make any necessary adjustments to the components required during construction of the prototype
- P19 maintain documentation in accordance with organizational procedures
- P20 maintain the requirements of confidentiality at all times

## Knowledge and understanding

*You need to know and understand:* 1. Prepare drawings for complex explosive article prototype(s)

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 team's capabilities, capacity and constraints

K6 component assembly methods, tools and techniques

K7 the deadline for the work

K8 your organization's requirements in terms of quality, the structure, format and content of drawings, designs and materials

K9 the type and sources of technical information required for drawings and assembly procedures

K10 reporting lines

K11 your own level of authority and that of others you work with

K12 the requirements of confidentiality

K13 carry out assembly-related activities to build complex explosive article prototype(s)

2. Carry out assembly-related activities to build complex explosive article prototype(s)

K14 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

K15 the relevance of personal protective equipment (PPE)

K16 the nature, characteristics, hazards and risks of the explosive substances and/or articles

K17 the actions to be taken in response to an unplanned event

K18 the design specification for the explosive article      K19 how to read a technical drawing

K20 component assembly methods, tools and techniques, as prescribed in the relevant documentation

K21 the methods of preventing damage to the prototype      K22 the precautions required to prevent unintentional functioning of the prototype

K23 your organization's procedures for quality and configuration control

K24 strengths, weaknesses and competences of your team      K25 the

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documentation requirements

K26 reporting lines and procedures

K27 your own level of authority and that of others you work with

K28 the requirements of confidentiality

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**Scope/range**

1. Drawings: assembly of discrete parts; complex assembly of multi-part components
2. People: colleagues; your manager; quality control representative; design manager/authority
3. Type of components to be assembled: explosive; non-explosive
4. Resources: yourself; your team

<b>Developed by</b>	Cogent
<b>Version Number</b>	2
<b>Date Approved</b>	November 2017
<b>Indicative Review Date</b>	November 2020
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating Organisation</b>	SEMTA
<b>Original URN</b>	ESA1.24
<b>Relevant Occupations</b>	Science and mathematics Science; Science; Engineering; Science and Engineering Technicians; Process, Plant and Machine Operatives
<b>Suite</b>	Explosive Substances and Articles
<b>Keywords</b>	Build, prototype, drawings, complex, explosive article, design