

Prepare and position explosive effects

Overview

This standard covers the competences you need to prepare and position safe and effective explosive effects. You are required to have the knowledge, skills and understanding to prepare and position safe and effective explosive effects, at

the same time ensuring that your work complies with all legal, statutory, industrial and organizational requirements. You must be able to identify any potential hazards and risks to health and safety inherent in your work. You must also know what actions would need to be taken in case of an emergency at each effect that you prepare and position, as well as ensuring that your work takes account of the safety of all who attending or are present for these events.

You will be required to work to the relevant legislation, regulatory requirements and organizational policy, and to follow applicable industry codes of practice and instructions.

Your responsibilities will require you to comply with health and safety requirements and organizational policy and procedures for the explosive effects work that you undertake. You must be able to recognize any limitations in your own competence in this work, and ask for appropriate help and advice in when it is needed. You may be required to work with little or no supervision, therefore taking responsibility for your own actions and for the quality and accuracy of the work that you carry out.

Your underpinning knowledge will provide an understanding of your explosive effects work, in order to apply safely the appropriate principles and practices. You will be competent in the safe use of the materials, equipment, consumables and instruments associated with your work and that of anyone assisting you, and with the procedures appropriate to your job. Your depth of knowledge will be sufficient to provide a sound basis for the preparation and positioning of safe and effective explosive effects that meet both customer requirements and the imperatives of health and safety.

You will understand the safety precautions required when mounting explosive effects and will apply these to your work. You will also understand your responsibility to others for incorporating the necessary safeguards to protect them in the locations in which the effects that you have prepared and positioned take place.

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 explosives entertainment managers.

Prepare and position explosive effects

Performance criteria

- You must be able to:*
- P1 work safely at all times, complying with health, safety and environmental and other relevant regulations, legislation and guidelines
 - P2 confirm the suitability of the area and resources to meet the design requirements
 - P3 prepare the area in accordance with the plan
 - P4 prepare and set up the equipment and explosive effects in accordance with the plan and confirm their serviceability
 - P5 ensure that safety arrangements are in place in accordance with the plan
 - P6 respond to developing events and priorities in accordance with procedures
 - P7 amend the plan in the light of changing circumstances and/or information
 - P8 ensure the safety and security of the area and explosive effects in accordance with the plan
 - P9 communicate unambiguously to those who need to know that the explosive effects have been positioned and are ready to be initiated
 - P10 ensure the security of the firing device at all times in accordance with procedures

Prepare and position explosive effects

Knowledge and understanding

- You need to know and understand:*
- K1 health, safety and environmental legislation, regulations and safe working practices governing explosives in your area of work
 - K2 the relevance of 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 initiation of the explosive substances and/or articles being used
 - K6 the importance of ensuring the safety and security of firing devices
 - K7 how to implement contingency plans
 - K8 the requirements of any relevant manufacturers' instructions and industry codes of practice
 - K9 the location and any associated constraints
 - K10 who needs to be informed of the proposed initiation
 - K11 the importance of unambiguous communication
 - K12 the roles, responsibilities and authorities of those involved

Prepare and position explosive effects

Scope/range

- 1 Factors affecting the preparation and positioning: spatial constraints; secondary hazards; negative environmental consequences; electrostatic conditions; atmospheric conditions; radio frequency transceivers
- 2 Nature of display: moving people; inter-related phases; combination of explosives/delivery systems
- 3 Resources: personnel; equipment; consumables; services

Prepare and position explosive effects

Developed by	Cogent
Version Number	2
Date Approved	November 2017
Indicative Review Date	November 2020
Validity	Current
Status	Original
Originating Organisation	SEMTA
Original URN	Unit 10.14
Relevant Occupations	Science and mathematics Science; Science; Engineering; Science and Engineering Technicians; Process, Plant and Machine Operatives
Suite	Explosive Substances and Articles
Keywords	Industry codes of practice, safe, effective, complex, legal, statutory, industrial and organisational requirements, secondary hazards, risks, health and safety, material, preparation and positioning, explosives, substances