

Ammunition and Explosive Safety for Defense Contractors

Abstract

This inclusive course is designed to provide students with an understanding of the technical safety standards, procedures, and safety practices required for all aspects of handling ammunition and explosives. By utilizing the *DoD Contractors' Safety Manual for Ammunition and Explosives (DOD 4145.26-M)* as our baseline for the training and multiple instructors (industry specialists, government experts, and technical inspectors), we are able to cover a vast array of topics in detail. This course specifically addresses contractor operations and contractual safety requirements, and it includes specific, practical information that can help safety managers understand, interpret, and uniformly apply the contract safety requirements of the *Contractors' Safety Manual (4145.26-M)*. Additionally, this course tackles the peculiar manufacturing safety requirements associated with explosives operations.

Course Description

Using a five-day format, the course focuses on the application of the requirements of the *Contractors' Safety Manual (4145.26-M)*. Of special interest are the principles and application of quantity distance, explosive facility siting requirements, hazard classification, and storage and compatibility of explosives and ammunition. There is also a discussion on the basic chemistry of energetic materials tied into the presentation of manufacturing and processing pyrotechnics and propellants.

Course Content

Courses focuses on the application of the requirements of DoD 4145.26-M, *DOD Contractors' Safety Manual for Ammunition and Explosives*

- Mishap Investigation and Reporting
- Safe Practice Standards
- Principles and Application of Q/D, Standard Explosives Facilities, and Siting Requirements
- Storage Compatibility System
- Hazard Classification and Q/D Criteria
- Liquid Propellants Standards
- Manufacturing and Processing Pyrotechnics
- Storage of Explosives and Ammunition
- Fire Protection
- Specific Chemicals
- Safety Standards for Explosive Materials, Facilities, and Operations Testing Standards