



Health, Safety and Environment

Management of Safety and Storage Strategies For Explosive and Munitions Symposium

Course Introduction

This integrated training program aims to enable participants to master the effective safety management and storage of explosives and munitions, by identifying the most important international standards that can be used in this aspect, mastering risk analysis and management, and applying effective storage strategies and techniques for explosives and munitions, in a way that guarantees the safety of military organizations in an integrated manner.

Target Audience

- Health and Safety Officers
- Environmental Health and Safety professionals

Learning Objectives

- Understand Modeling of Explosion Effects and Consequences.
- Understand OSHA standards for explosives manufacturing management.
- Master Conducting Quantitative Risk Analysis (QRA).
- Assess and Manage Risks in Ammunition Storage and Processing Facilities.
- Master Ammunition Handling and Storage Management
- Understand Management and Segregation of Military Propellants.
- Master the Destruction of Unsafe and Surplus Stock.
- Master Mitigating and Managing the Effects of Accidental Explosions.
- Develop Storage Infrastructure for Conflict-Affected and Low-Capacity Environments.
- Develop national standards for ammunition management.
- Master Implementing Effective Security Measures and Preventing Stock Diversion.
- Manage Unclassified Ammunition.

- Develop effective Ammunition Technical and Ammunition Safety Management Training.

Course Outline

• DAY 01

Introduction to Explosives Safety

- Modeling of Explosion Effects and Consequences.
- Understand OSHA standards for explosives manufacturing management.
- Quantitative Risk Analysis (QRA).
- Policy and Standards.
- Insensitive Munitions.
- Accident Reporting.

Improving Safety - Reducing the Risk of Accidental Explosions

- Assessing and Managing Risk in Ammunition Storage and Processing Facilities
- Ammunition Handling and Storage Management
- Ammunition Handling, Stacking and ESH Management
- Climatic Protection
- Storage by Hazard Division and Compatibility Group
- Fire Prevention
- Management and Segregation of Military Propellants
- Destruction of Unsafe and Surplus Stock

• Day 02

Improving Safety - Mitigating and Managing the Effects of Accidental Explosions

- Explosive Licensing and the Use of Quantity Distances.
- Safeguarding Explosives Storage Areas.

- Practical Measures to Prevent the Prompt Initiation of Adjacent Explosive Store Houses.
- Managing Explosions in Ammunition Storage Areas.
- Minimizing Personnel Exposure Inside Ammunition Facilities.

Developing Storage Infrastructure for Conflict-Affected and Low-Capacity Environments

- Planning Considerations.
- A guide to developing national standards for ammunition management.
- Use of Open Ammunition Stacks.
- Shipping Container Based Storage Solutions.
- Light Walled Structures.
- Compartmented Light-Walled Structures.
- Pre-Fabricated Earth Covered Magazine.
- Enhancing Existing Ammunition Infrastructure.

• Day 03

Implementing Effective Security Measures and Preventing Stock Diversion

- Security Risk Assessment.
- Security Infrastructure Appropriate for Conflict-Affected and Low-Capacity Environments.
- Separation of Weapons and Ammunition.
- Security Infrastructure for Conflict-Affected and Low-Capacity Settings.
- Prevention of Diversion.

• Day 04

Managing Unclassified Ammunition:

- Introduction to the Hazard Classification of Ammunition.
- Overview of the Problem
- Methodology of Assessment
- Assessing Hazard Division
- Assessing Compatibility Group
- Marking of Ammunition Packages

- Management of Recovered and Captured Ammunition

Training and Competence Development:

- Core Ammunition Technical and Management Competences
- Ammunition Technical and Ammunition Safety Management Training
- Addressing the Ammunition Technical Competence Shortfalls in Conflict-Affected and Low-Capacity Settings
- Explosive Ordnance Disposal Training

• Day 05

International Co-operation and Assistance

- Why International Co-operation and Assistance is Needed in Conflict-Affected and Low-Capacity Settings.
- Role of National Authorities.
- Development of Infrastructure.
- Training of Personnel.
- Assistance with the Destruction of Unsafe, Obsolete, Unserviceable or Surplus Ammunition Stock.
- Assistance with the Security of Ammunition Stockpiles.
- Practical Application.
- Final Assessment.

Confirmed Sessions

| FROM | TO | DURATION | FEES | LOCATION |
|----------------|----------------|----------|------------|-----------------|
| April 20, 2025 | April 24, 2025 | 5 days | 4250.00 \$ | KSA - Riyadh |
| Sept. 22, 2025 | Sept. 26, 2025 | 5 days | 4250.00 \$ | UAE - Abu Dhabi |

| FROM | TO | DURATION | FEES | LOCATION |
|---------------|--------------|----------|------------|-------------|
| Dec. 29, 2025 | Jan. 2, 2026 | 5 days | 4250.00 \$ | UAE - Dubai |