MERCURY

International Safe Handling, Management of Safety, & Storage Strategies for Explosives & Ammunition

24 – 28 January 2027
Sharm El-Sheikh (Egypt)



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International Safe Handling, Management of Safety, & Storage Strategies for Explosives & Ammunition

Ref: 15302_1084560 **Date:** 24 – 28 January 2027 **Location:** Sharm El-Sheikh (Egypt) **Fees:** 4500 Euro

Introduction:

This international safe handling and ammunition safety management conference will explore the international safety protocols and best safe handling techniques applicable to managing safety and storage strategies for explosives and ammunition. The contemporary challenges faced in the safe handling and safety management strategies of explosives and munitions are critically important issues addressed by many policy documents and professional communities.

This international safe handling and ammunition safety management conference is grounded in best practices and foundational technical and scientific knowledge. It convenes experts from the Hazard Classification HC, Insensitive Munitions IM, and explosives storage safety communities, aiming to foster a coordinated and optimal approach to managing the risk associated with explosives and munitions.

An additional objective of the international safe handling and ammunition safety management workshop is to introduce changes that will enhance the utilization of IM benefits, particularly during transit and safe handling during the storage phase. Thus, the workshop aims to augment safety and preserve military capabilities in precarious operational contexts.

Conference Objectives:

Upon the end of this international safe handling and ammunition safety management conference, the participants will be able to:

- Develop knowledge and awareness of the explosive impacts on buildings utilized for ammunition storage.
- Understand the Hazard Division protection provided by buildings.
- Learn about the various types of structures and the architectural concerns for ammo storage facilities.
- Engage in detailed discussions on safe handling techniques, calculations for safe storage volume, and the requirements for bulk munitions storage.
- Demonstrate knowledge of fire safety regulations and their implementation in ammunition storage facilities.
- Learn the typical markings used for Ammunition Packaging and loose unpackaged ammunition, including Lotting and Batching markings to facilitate identification, accounting, security, and safety storage.
- Explore the safe handling training methodologies for different methods of transporting ammunition securely to accepted international standards.
- Enhance understanding of the physical security and protection measures essential for an explosive storage facility's ammunition stockpile.
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Develop awareness of the control procedures critical in managing and controlling explosive facilities, thus ensuring the safety and security of stored ammunition stockpiles.
- Evaluate strategies for ensuring munitions storage safety in storage facilities.

Targeted Groups:

- Military personnel involved in explosives handling.
- Law enforcement agencies are dealing with explosive materials.
- Security personnel responsible for ammunition storage.
- Civilian contractors in explosive demolition or mining industries.
- Explosives manufacturers and distributors.
- Emergency response teams and bomb squads.
- Government regulators overseeing explosives safety.
- Researchers and academics in explosives engineering.

Targeted Competencies:

At the end of this international safe handling and ammunition safety management training, the participants will be able to:

- Understand explosive classifications and characteristics.
- Proficiency in safe handling and storage protocols.
- Competence in risk assessment and mitigation strategies.
- Know legal and regulatory compliance in explosives management.
- Expertise in emergency response procedures for explosive incidents.
- Skills in designing secure storage facilities for ammunition.
- Ability to implement preventive maintenance and inspection routines.
- Understand environmental and health considerations in explosives management.

Enhancing Safety Management Strategies:

In alignment with the objectives of providing a holistic understanding of ammunition and explosives storage safety, the international safe handling and ammunition safety management training will delve into the various safety management strategies, ensuring that participants are well-equipped to foster environments prioritizing safety.

This international safe handling and ammunition safety management conference will focus on implementing robust safety storage protocols and adopting advanced safe handling training initiatives. It will empower professionals to effectively manage potential risks associated with storing and handling explosives and ammunition, contributing significantly to the safe international handling of hazardous materials.

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Conference Content:

Unit 1: Explosives Foundation:

- Discuss the differences and applications of high and low explosives.
- Cover the principles and objectives of explosive trains.
- Examine explosive power and effects.
- Highlight specifications for electrical fittings and lightning protection in Ammunition Storage Facilities.
- Review Standing Operating Procedures for explosive demolition operations.
- Define the responsibilities of supervisors overseeing explosive demolition tasks.
- Address Explosives Health & Safety and First Aid for blast injuries.
- Train participants in safe handling conference recommended practices for confidently handling explosives, including creating ring mains and line detonation systems.

Unit 2: Explosives Storage Management:

- Outline the responsibilities of managers and employees in explosive storage areas.
- Delving into the tenets of explosives safety.
- Explain the classification of explosives.
- Describe different explosives storage areas.
- Discuss explosives transportation and security measures.
- Consider radiation hazards linked to explosives.
- Calculate quantity distances and explosive limits for storage areas.

Unit 3: Ammunition Storage Area Safety:

- Identify Field and Temporary Storage Solutions.
- Decod Ammunition and Package Markings.
- Enforce Fire Prevention standards.
- Conduct Ammunition Accounting Practices.
- Comput Ammunition Storage Calculations.
- Evaluate Electrical Installations in Ammunition Storage Facilities.

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Unit 4: Ammunition Storage Area Operations

- Review Magazine Types and Construction.
- Calculate Storage Capacity with precision.
- Strategize the Movement of Ammunition.
- Ensure Security in Ammunition Storage.

Unit 5: Emergency Response and Contingency Planning:

- Establish immediate response teams and protocols.
- Practice controlled detonation techniques.
- Plan for uncontrolled explosive reactions.
- Create evacuation procedures and emergency communication systems.
- Train personnel in first aid and medical response.