



# SAFETY SERVICES ORGANISATION



**Session 4.2**

# **Security**

**IATG Foundation Course:  
Ammunition Storage & Operations Module**



# Lesson Objectives

**By the end of this lesson, you should be able to:**

- Describe the security requirements for ammunition storage facilities
- Describe some of the principal physical security requirements

# Aim of Ammunition Stockpile Security

- **100% security is virtually impossible to achieve**
- **Ammunition stockpile security aims to:**
  - Deter break-ins and theft
  - Detect and thwart security breaches
  - Delay the removal of stocks
  - Assess the scale of a security breach
  - Enable effective responses to be mounted

# Principles of Ammunition Stockpile Security

- **A combination of measures can be implemented to make the ammunition stockpile as secure as possible:**
  - Implement effective accounting systems and procedures
  - Develop physical security systems from a security risk assessment
  - Consider physical security from the design stage and construct adequate and effective physical security infrastructure
  - Implement effective access controls and only permit security cleared and authorised personnel to have access to the ammunition stockpile

# Stockpile Risk Assessment

| ACTO Item                       | Potential Terrorist Use                                                                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MANPADS                         | <ul style="list-style-type: none"><li>▪ Attacks on civil aviation.</li></ul>                                                                                             |
| Detonators                      | <ul style="list-style-type: none"><li>▪ Initiation of Improvised Explosive Devices (IED).</li><li>▪ Usually strictly controlled on civilian explosives market.</li></ul> |
| Bulk Explosive                  | <ul style="list-style-type: none"><li>▪ Used as main charge for IEDs.</li><li>▪ More powerful than home-made or commercial explosives.</li></ul>                         |
| Man-portable Anti-Tank Missiles | <ul style="list-style-type: none"><li>▪ Attacks on VIP vehicles.</li></ul>                                                                                               |
| Hand Grenades                   | <ul style="list-style-type: none"><li>▪ Concealable weapon that can be used in confined spaces.</li></ul>                                                                |
| Small arms ammunition           | <ul style="list-style-type: none"><li>▪ Close Quarter Assassinations.</li></ul>                                                                                          |

# Diversion

- **Diversion includes:**
  - Sabotage
  - Loss
  - Theft
  - Leakage
  - Proliferation
- **Current threat of diversion?**
- **What local/tactical-level actions can be taken to minimise opportunities for diversion?**

# Physical Security Procedures

- **Security requirements may vary between locations**
- **Analyse how different factors may impact upon security**
- **Address issues such as the type and value of the ammunition to be stored:**
  - Any known local threats and the estimated costs of security against those threats?
  - Any local constraints that may determine particular courses of action?

# Security Risk Assessment

- **Risk criteria include:**

- the type of assets to be protected
- the role of the unit or users
- the value of assets (monetary/utility to illicit users) to be protected
- the threats to those assets
- the protection level desired against such threats, which may include cost benefit analysis
- any design constraints imposed by the organisation storing the conventional ammunition

# Physical Security Procedures

- **Security regulations – these should be drawn from national regulations, but may have modifications for local circumstances**
- **Security plan – each ammunition storage facility should have a bespoke security plan**
- **Staff selection and vetting procedures**

# Physical Security Procedures

- **Access control addresses:**
- **control of access to keys and security combination locks that enable direct access to the stock**
- **the method of controlling personnel entry to an explosives facility**

# Security of Buildings

- **Physical measures may be used to secure buildings and other structures.**
- **Ensure that doors, gates and windows can be secured by:**
  - Use of security locks
  - Padlocks
  - Intruder detection systems
- **National or international standards for security fixtures and fittings will provide guidance**



# Perimeter Security

- **There are different standards of security fencing for the various types of ammunition facility**
- **The security risk analysis helps identify the required security fencing class**

# Class 1 security fencing

- **Marks boundary**
- **1.5m high**
- **Minimum deterrence or resistance**



# Class 2 security fencing

- **Anti-intruder fence**
- **Some resistance to climbing and breaching**
- **Should be supported by other systems**



# Class 3 security fencing

- **Intermediate security barrier**
- **Delay & deter resourceful attacker**
- **Should be supported by other systems**
- **Good balance of delay to attack vs cost**



# Class 4 security fencing

- **High-security barrier**
- **Maximum deterrence to determined intruder**
- **Shall be supported by other systems**
  - CCTV
  - IDS
- **Expensive**



# Perimeter Security

- **Other measures to ensure perimeter security:**
  - Use of clear zones to enhance lines of sight
  - Provision of illumination
  - Perimeter intruder detection systems
  - Securing drainage channels
  - Use of patrols and dogs



# Questions?

# Lesson Objectives

## You should now be able to:

- Describe the security principles for ammo storage facilities
- Contribute to a security risk assessment
- Understand the concept of diversion and the importance of its prevention
- Identify the main aspects of physical security of ammunition facilities
- Describe some of the methods by which physical security of ammunition facilities may be enhanced





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