

# SECURITY CONTROL AND MANAGEMENT – Examination Study Guide

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## How to Use This Guide

- **Review each unit** in the order presented. The course follows a logical progression from identification systems to physical security, access control, detection technologies, and screening.
  - **Focus on definitions, advantages/disadvantages, procedures, and real-world applications** – these are common exam targets.
  - **Use the "General Conditions" (Section 6.0)** as your core learning outcomes. Every exam question will likely tie back to these four goals.
  - **Practice applying concepts** to facility security scenarios – case study questions are a major component of coursework (50%).
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## Core Learning Outcomes

By the end of the module, you should be able to:

1. **Have comprehensive knowledge of all security control measures.**
  2. **Fully understand the application of these measures.**
  3. **Identify and correct weaknesses in security control.**
  4. **Effectively manage security control measures on a facility.**
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## Unit-by-Unit Study Topics

### UNIT ONE – Security Identification Permit Systems

#### Key Topics:

- Essential features of a permit system
- Permit administration and background checks
- Collection, briefing, and handling of loss/theft/misuse
- Proper wearing and displaying of permits
- Permit design principles
- Vehicle permits and permit production/control

#### Potential Exam Questions:

- What are the essential features of an effective identification permit system?
  - Describe the steps to take when a permit is reported lost or stolen.
  - How do vehicle permits differ from personnel permits in design and control?
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## UNIT TWO – Physical Security Measures

### Key Topics:

- External perimeter security: fences and Perimeter Intrusion Detection Systems (PIDS)
- Security lighting (types and applications)
- Closed Circuit Television (CCTV): general principles, system considerations, definitions, and minimum standards

### Potential Exam Questions:

- Compare different types of perimeter fences in terms of security effectiveness.
  - Explain how PIDS and lighting work together to deter intrusion.
  - What are the minimum standards for CCTV system design in a secure facility?
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## UNIT THREE – Automatic Access Control Systems (AACS)

### Key Topics:

- Advantages and disadvantages of AACS
- Types of systems: coded card systems and PIN-based systems
- Installation considerations
- Management of AACS (including maintenance and user administration)
- Integration with intruder detection systems

### Potential Exam Questions:

- List three advantages and three disadvantages of AACS compared to manual access control.
  - How should a facility manager respond to a compromised PIN or lost access card?
  - Describe how an AACS can be linked to an intruder detection system.
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## UNIT FOUR – Physical Security Systems

### Key Topics:

- Physical security of buildings (structural elements, doors, windows, locks, barriers)

### Potential Exam Questions:

- What are the key components of a building's physical security system?
  - Identify common structural weaknesses in buildings and suggest corrections.
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## UNIT FIVE – Security Measures

### Key Topics:

- Deterrence (principles and methods)
- Detection (principles and methods)
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### Potential Exam Questions:

- Explain the difference between deterrence and detection. Provide examples of each.
  - Why is detection alone insufficient for comprehensive security?
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## UNIT SIX – Detection Technologies and Equipment

### Key Topics:

- Selection and procurement of explosive detection systems
- Equipment assessment and testing
- Types of threats: explosives and weapons
- Metal detectors (walk-through and hand-held)
- X-ray detection equipment and techniques
- Nuclear detection systems
- Vapour and trace detection equipment
- Optical detection aids
- Equipment maintenance

### Potential Exam Questions:

- What criteria should be used when selecting an explosive detection system?
  - Compare the strengths and limitations of X-ray vs. vapour detection.
  - Why is regular equipment maintenance critical for detection technologies?
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## UNIT SEVEN – Screening of Persons and Baggage

### Key Topics:

- Effective search techniques and limitations of hand search
- Searching the person (including procedures for special needs and refusal to be screened)
- Hand search of baggage
- X-ray screening of baggage
- Procedures upon discovery of a prohibited article
- Handling and recording confiscated items
- Screening environment design

### Potential Exam Questions:

- Describe the step-by-step procedure for handling a person who refuses screening.
  - What are the limitations of hand search compared to X-ray?
  - How should a security officer record and handle a confiscated weapon?
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## Exam & Coursework Structure

Component	Weight	Details
Coursework	50%	Group case study + individual assignment + mid-module evaluation
Final Examination	50%	Covers all units, emphasis on application and management scenarios

**Study Tip:** Practice writing short answers for definitions (e.g., PIDS, AACS, trace detection) and longer answers for procedural questions (e.g., “What do you do when a prohibited item is found?”).

## Key Terminology Flashcard List

- PIDS (Perimeter Intrusion Detection System)
- AACS (Automatic Access Control System)
- Coded card system vs. PIN system
- Vapour and trace detection
- Optical detection aids
- Hand search vs. X-ray screening
- Deterrence vs. detection
- Background checks (in permit systems)
- Confiscation recording procedures

## Sample Study Questions (Self-Test)

1. You are the security manager of a facility. The current identification permit system has frequent reports of lost cards. What corrective actions would you implement?
2. Compare the use of security lighting versus CCTV for perimeter protection. Which is more effective for deterrence? For detection?
3. A visitor refuses to be screened by a metal detector. What is the correct procedure?
4. Your facility needs to purchase new explosive detection equipment. Outline the selection and testing process you would follow.
5. Describe the advantages and disadvantages of automatic access control systems over a manned checkpoint.

## Recommended Resources (*check our online databases*)

1. Lawrence, F. (2003). *Effective Physical Security*, 3rd ed. (Butterworth-Heinemann) – **Focus on perimeter and building security.**
2. Fischer, R.J., Halibeck, E. and Green, G. (2008). *Introduction to Security*, 8th ed. – **Good for detection technologies.**

3. Ortmeier, P.J. (2008). *Introduction to Security Operations and Management* – **Useful for management and procedures.**
  4. Internet sources (use current government and industry security guidelines for updates on detection equipment).
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## Last-Minute Revision Checklist

- Can I explain the four learning outcomes (Section 6.0)?
  - Do I know the essential features of a permit system?
  - Can I compare fences, PIDS, lighting, and CCTV?
  - Do I understand AACS advantages and management?
  - Can I list and describe major detection technologies?
  - Do I know the step-by-step procedures for screening persons and baggage?
  - Have I reviewed how to handle confiscated items and refusals?
  - Can I apply these concepts to a facility security case study?
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## Additional Support

For assistance with research or accessing resources such as past papers, visit the CMU Library or contact:

 **Email:** [library@cmu.edu.jm/cmulibrary123@gmail.com](mailto:library@cmu.edu.jm/cmulibrary123@gmail.com)

 **WhatsApp:** (876) 564-4274

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