COURSE: SECURITY+ SY0-401

MODULE 2: COMPLIANCE AND OPERATION SECURITY

Part B

Overview

- Explain the importance of security related awareness and training
- Compare and contrast physical security and environmental controls
- Summarize risk management best practices
- Given a scenario, select the appropriate control to meet the goals of security

Information Classification

- High
- Medium
- Low
- Confidential
- Private
- Public

Security Awareness Training

- Security policy training and procedures
- Role-based training
- Personally identifiable information
- Data labeling, handling and disposal
- Compliance with laws, best practices and standards

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User Habits

- Password behaviors
- Data handling
- Clean desk policies
- Prevent tailgating
- Personally owned devices

Security Awareness Training

New Threats and New Security Trends/Alerts

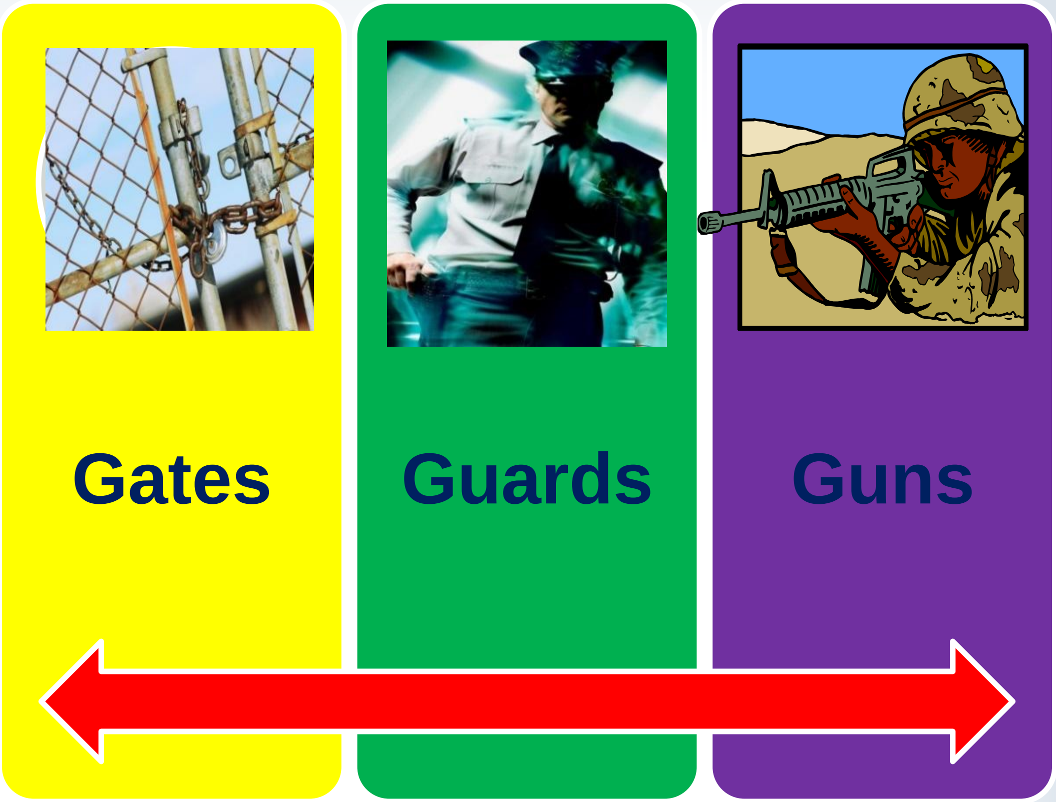
- New viruses
- Phishing attacks
- Zero-day exploits

Environmental Controls

- HVAC
- Fire suppression
- EMI shielding
- Hot and cold aisles
- Environmental monitoring
- Temperature and humidity controls

Physical Security

- Hardware locks
- Mantraps
- Video Surveillance
- Fencing
- Proximity readers
- Access list
- Proper lighting
- Signs
- Guards
- Barricades
- Biometrics
- Protected distribution (cabling)
- Alarms
- Motion detection



Gates

Guards

Guns

Control Types

- Deterrent
- Preventive
- Detective
- Compensating
- Technical
- Administrative

Risk Management

Business Continuity Concepts

- Identification of critical systems and components
- Business continuity planning and testing
  Business impact analysis
- Risk assessment
- Continuity of operations
- Disaster recovery
- IT contingency planning
- Succession planning
- High availability
- Redundancy
- Tabletop exercises
- Removing single points of failure

Risk Management

Fault Tolerance

What is fault tolerance?

Achieving fault tolerance

- Hardware
- RAID
- Clustering
- Load balancing
- Servers

Disaster Recovery Concepts

What is disaster recovery?

Disaster recovery measures

- Backup plans/policies
- Backup execution/frequency
- Cold site
- Hot site
- Warm site

Appropriate Security Controls

Confidentiality

What is confidentiality?

Protecting confidentiality

- Encryption
- Access controls
- Steganography

Appropriate Security Controls

Integrity

What is integrity?

Protecting integrity

- Hashing
- Digital signatures
- Certificates
- Non-repudiation

Appropriate Security Controls

Availability

What is availability?

Protecting availability

- Redundancy
- Fault tolerance
- Patching

Appropriate Security Controls

Safety

- Fencing
- Lighting
- Locks
- CCTV
- Escape plans
- Drills
- Escape routes
- Testing controls

THANK YOU