

Physical Access Controls



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Access Controls Concepts for the CC® Certification

Agenda:

**Access Controls
Concepts**

**Physical Access
Controls**

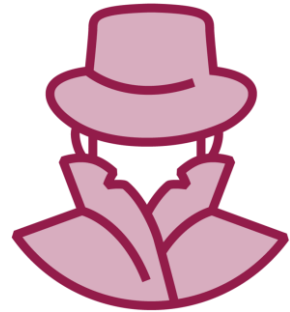
**Logical Access
Controls**



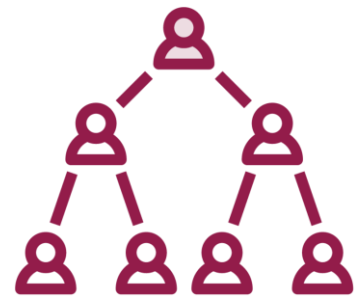
Physical Threats



Natural events



Crime

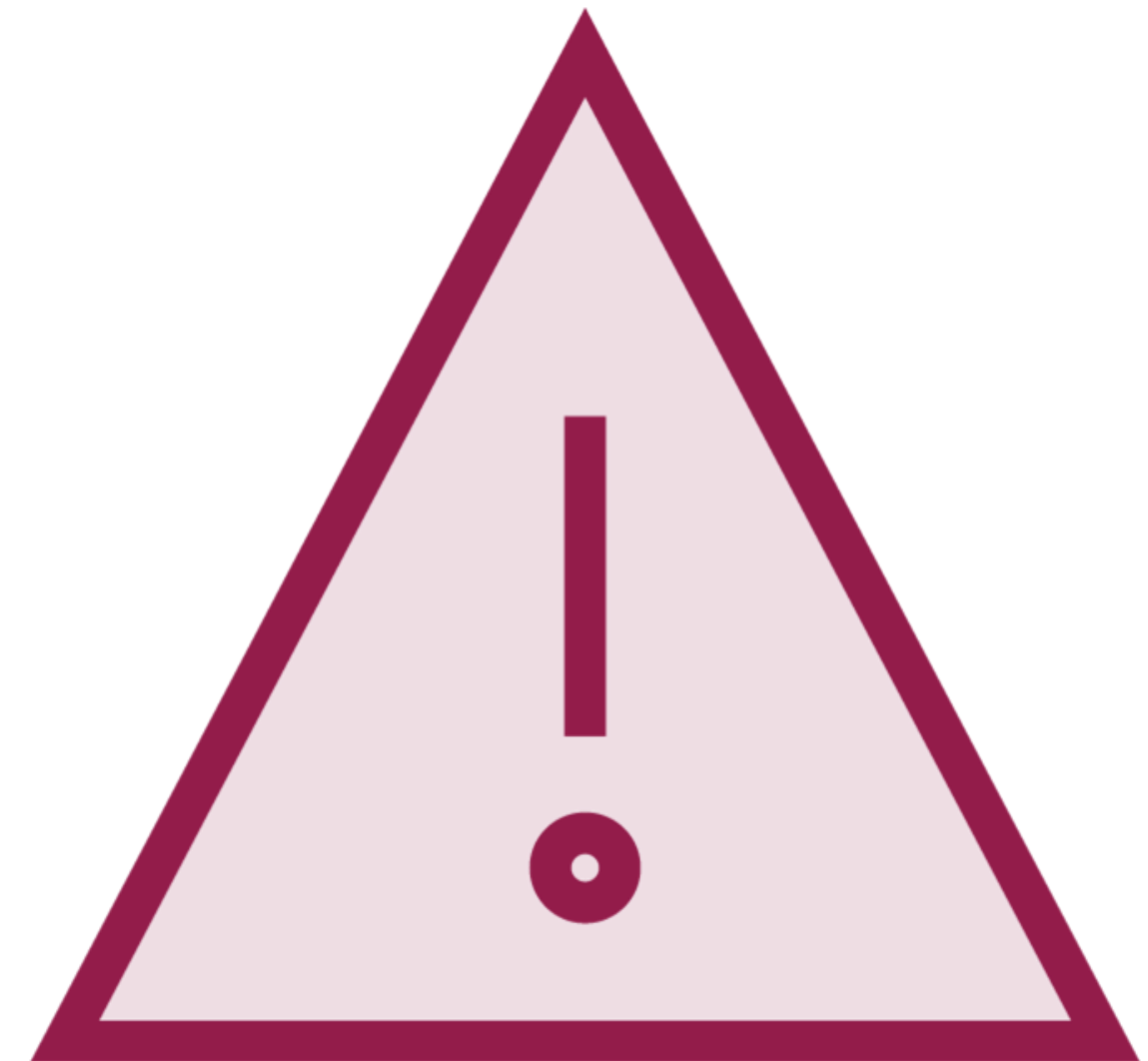


Competitors

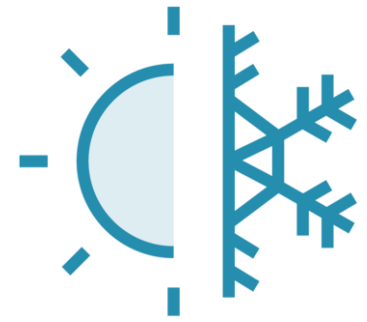
Employment, Supply chain, Water



Geopolitical



Facility Support



HVAC

Temperature

Humidity



Power

UPS

Generator



Lighting

Well-lit



Layered Defense



Defense in Depth

Not relying on a single control to protect an asset

- Controls are arranged in a series:
 - Fence
 - Door
 - Security guard
 - Secure work area
 - Locked cabinets





Layered Defense

Physical security vulnerabilities can be more serious than any other security control vulnerability



Facilities Security



External Physical Access Controls

Fences

Lighting

Flood lighting

Guards

Discriminating judgment

Alarms



Controlled Entry

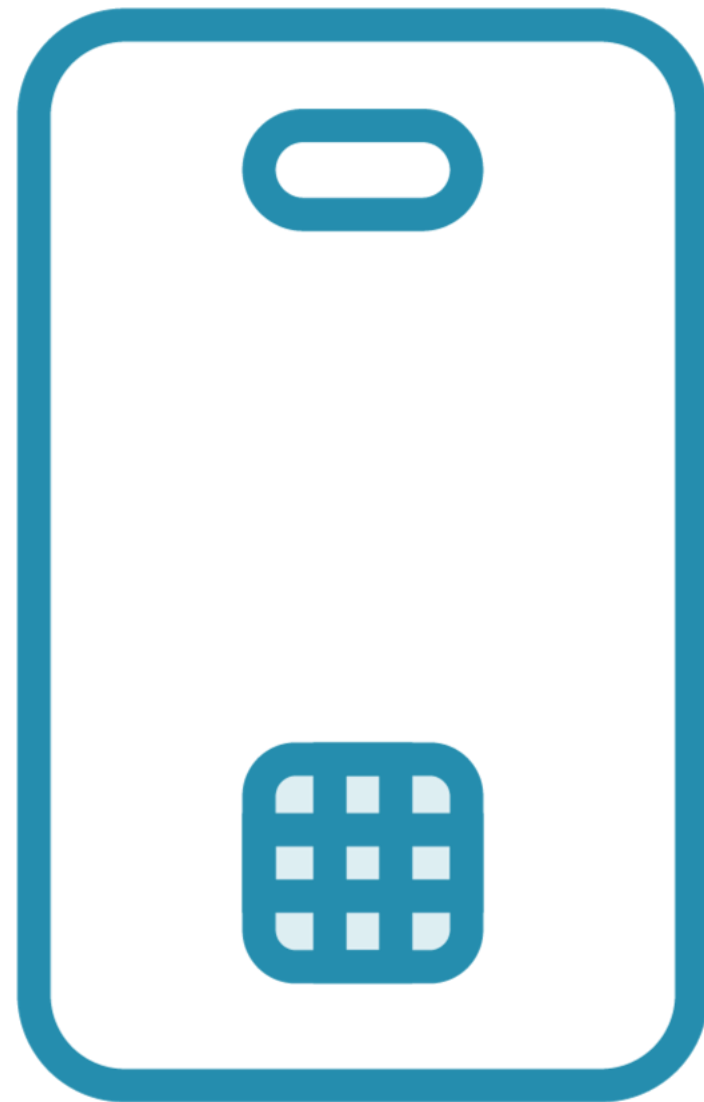


Bollards



Visitor parking

Physical Access Controls



Badges

- **Smartcards**

Turnstiles

Mantraps



Visitors and Contractors



Temporary badges

Logs



Escort requirements



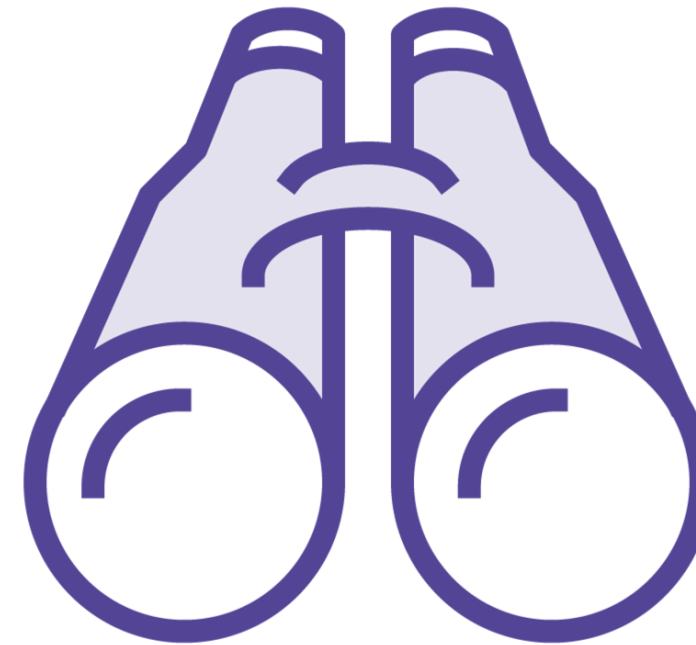
Cameras



Quality of image



Storage
Access
Retention



Monitoring



**Legal
compliance**
Disclosure



Internal Threats

Theft

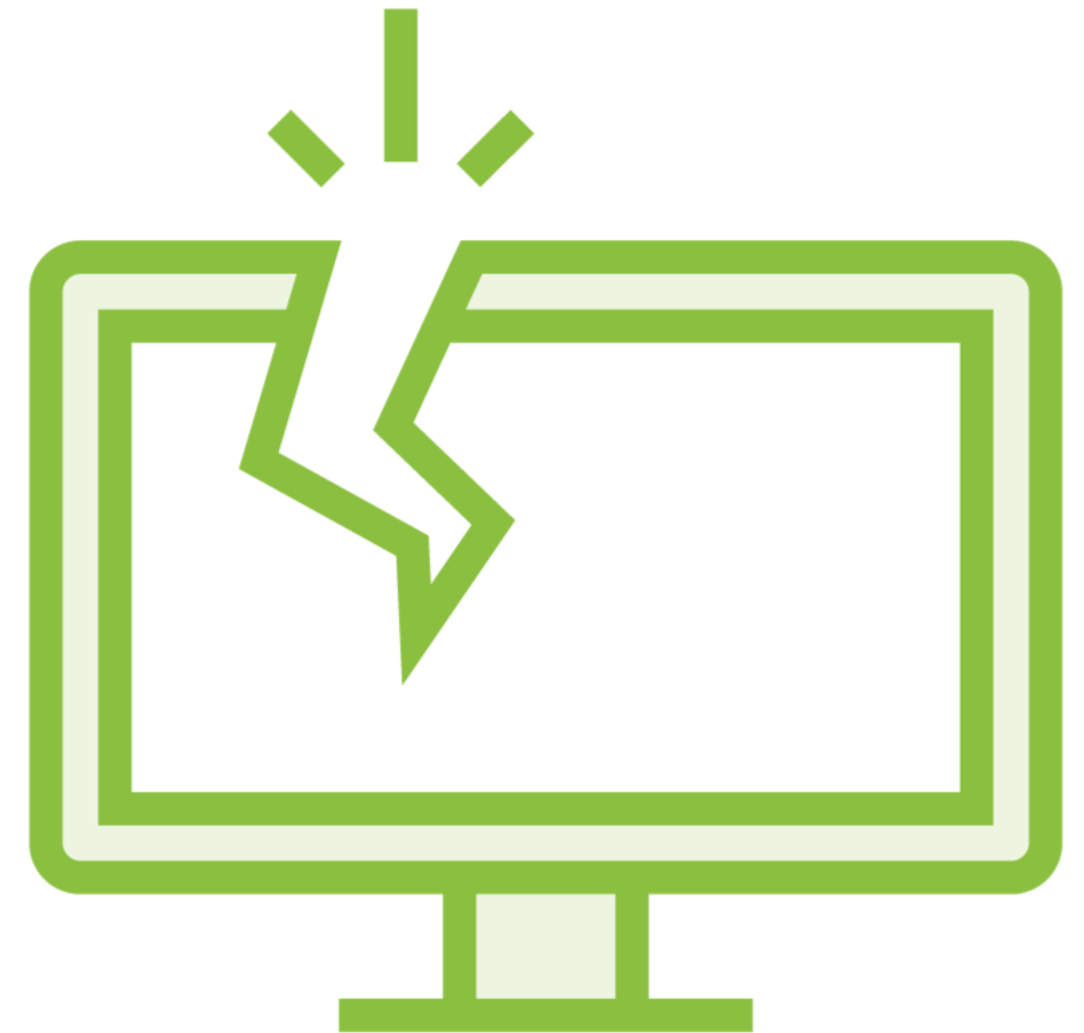
Disconnection of power

Cleaning staff

Construction

Damage to wiring

Damage to equipment



Facilities Security

Emergency exits
Emergency lighting
Fail safe





Shared Facility

Secure work areas

Interception of traffic

- Wiring closets
- Wireless

Conduit

Secured equipment cabinets



Key Points Review



Physical security is important – a physical breach can circumvent nearly any technical control.

