

## Exercises B.2

# Deterring and Defeating the Insider Threat

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Sandia is a multi-program laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy under contract DE-AC04-94AL85000.



**IAEA**

International Atomic Energy Agency

# The Threat Triangle



# Motive, Means and Opportunity

- *Motive*
  - Why?
  - May include ideological, personal, economic, and psychotic reasons
  - Give rise to particular intent or objective
  - Also impact behavior (e.g., passive or active, violent or nonviolent).
- *Means*
  - How?
  - Tool Examples: knowledge (general and specific); equipment (e.g., tools, weapons, explosives, transportation); and people (willing, coerced or unknowing).
- *Opportunity.*
  - When? The occasion that presents itself to allow a crime (e.g., theft or sabotage) to take place.

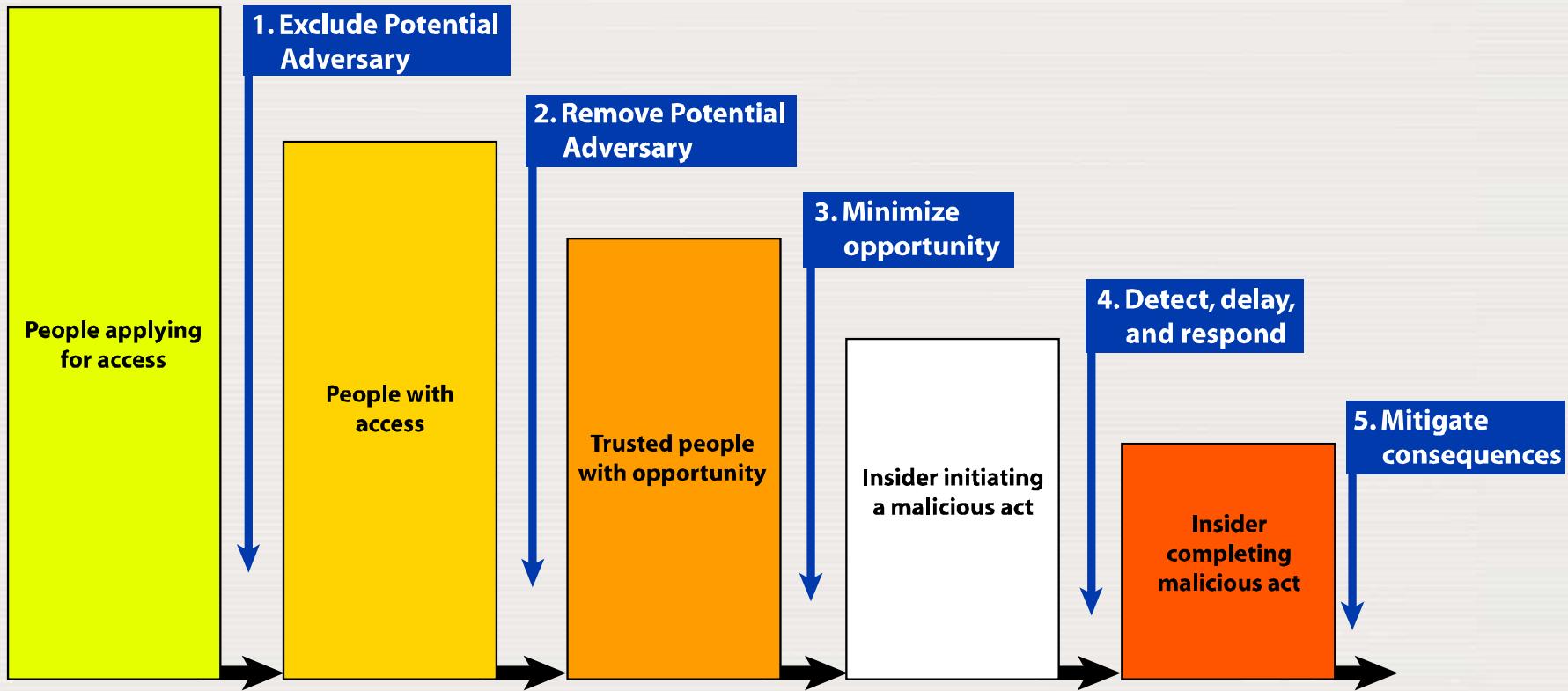
# Insider Threat

- Insider: Any individual with authorized access to *nuclear facilities* or *transport* who might attempt unauthorized removal or sabotage, or who could aid *outsiders* to do so.
- Insiders might include:
  - Management
  - Regular employees
  - Security personnel
  - Service providers
  - Visitors
  - Inspectors
  - Past employees

# Mitigating the Insider

- Technical controls:
  - Personnel Security
  - Information Security
  - Physical Protection System
  - Nuclear Materials Accounting and Control
- Facility management
  - key role to play.

# Insider Threat



# For Further Information

- This material is VERY brief overview of Insider security topics, Further information available through other IAEA-sponsored courses:
  - *International and Regional Training Courses on the Physical Protection of Nuclear Facilities and Materials.*
  - *Guidance for the Development and Maintenance of a Design Basis Threat.*
  - *Insider Workshop.*

# CIAE Demonstration Area

- Demonstration area incorporates systems features that could be integrated
  - PP system
  - NMA&C system

# Security Features

## CIAE Demonstration Area

- Exterior Security Fence
- Access Control System (graded system)\*
  - Front gate of facility
  - Building entrance\*
  - “Mantrap” (metal detector, radiation detector, secure doors)\*
- EXTERNAL Building features/sensor (microwave)
- Internal Building Sensors\*
  - Cameras\*
  - Intrusion sensors\*
  - Load cells\*
  - Seals (VACOSS\*, tape, e-cup)
  - Door and vault locks\*
- Guards (local, response force)
- Central Alarm Station (CAS)\*
- Remote monitoring system