

Health Cyber Exercises for Patient Safety

Intelligence-Driven Exercises and Solutions (IDEAS) to Address Health Cyber

PROBLEM: As threats, technology, and organizations change at ever increasing speed, the healthcare sector must adapt to this dynamic environment through continuous validation and refinement of their assumptions, methods, and strategies



SOLUTION: APPLYING EXERCISES TO THE HEALTH CYBER PROBLEM

IDEAS is a tabletop exercise (TTX) methodology - thoughtfully designed discussion-based events during which participants **explore dynamic problem sets** or threats in a unique way to challenge assumptions, methods, and strategies and **bolster understanding**

IDEAS events target key individuals within an ecosystem and provide an opportunity to explore complex problems and capabilities in a realistic, controlled environment



PEOPLE

Identify roles & responsibilities, define decision making parameters, establish relationships



PROCESS

Establish process to address gaps or technical challenge, improve analysis techniques, develop plans



TECH

Explore effectiveness, define requirements

Approach

MITRE works closely with healthcare delivery organizations and other stakeholders to **scope** the problem, **define** objectives, **design** the exercise, and **execute** the event.



We help build the **foundational scenario** describing the problem, environment, threat, or landscape along with a series of **injects** to steer the exercise.

Participant discussions are focused to address exercise objectives such as:

- Identifying knowledge gaps
- Challenging plans and protocols
- Understanding processes, roles, responsibilities, and information flow
- Refining communication and information sharing processes
- Understanding decision making in the event of a disaster or emergency, etc.



Exercise Outputs

- Data-driven technical products & actionable recommendations that impact objectives
- Learn how to deal with current/emerging threats
- Challenges to threat responses
- Inform decision making
- Risk mitigation
- Validate operations & processes

Health Cyber Exercises for Patient Safety

Intelligence-Driven Exercises and Solutions (IDEAS) to Address Health Cyber



PLAN

- 1 Identify Threats, Define roles & authority; Define parameters

DEVELOP

- 2 Build scenarios, injects, evaluations, and logistics

EXERCISE

- 3 Exercise responds to injects; identify gaps, improve analysis

IMPACT

- 4 Evaluation & applying lessons learned

Examples of MITRE'S Past Exercises



"We experienced a brief systemwide downtime and the role of the exercise in preparing teams for that event has been mentioned in every debriefing."



FEMA

Emergency preparedness, response, & disaster recovery of a natural or manmade disaster



Economic TTX
Indicators and Warnings (I&W) of an attack on the U.S. Economy