

# Bridge Security Design: Overview, Practice, & Future Needs

*This four-hour short course, offered virtually or on site, provides a breadth of information covering bridge security design topics. This course will help identify key issues and resources to assess risk to bridges from intentional physical threats and resources.*

## **Learning Objectives:**

- Awareness of highway bridge vulnerability to malicious attacks
- Low-probability, high-consequence events and the concept of risk
- Ways to reduce risk of damage and human injury
- Current state-of-the-practice in bridge security and discuss future industry needs

## **Modules:**

- Module 1: Introduction. Describe why bridges are subject to physical security threats.
- Module 2: Security Planning & Threat and Vulnerability Assessment
- Module 3: Fundamental Concepts in Bridge Security Design and Analysis
- Module 4: Protective Design Practices for Critical Bridge Components
- Module 5: Summary and Future Needs for Bridge Security Design

This course is free. Registration is required. On site options include your office or USDOT.

*For more information, contact [Vincent.Chiarito@dot.gov](mailto:Vincent.Chiarito@dot.gov). To learn more about bridge security design, visit <https://www.fhwa.dot.gov/bridge/security/>.*



U.S. Department of Transportation  
**Federal Highway Administration**