

Description

This course in support of the DOE Graduate Certificate in Transportation Safeguards and Security (GCTSS) provides a comprehensive overview of cyber-physical security- serving as an introduction to key concepts, terms, and approaches that support domestic and international efforts to improve the utilization of holistic security concepts in the protection of critical nuclear assets.

Learn ...

- How to identify the purpose and importance of integrating cyber and physical security
- The philosophy and history of cyberphysical security
- Cyber-physical security events and why they matter
- Elements of the common language utilized for cyber-physical security
- Importance and methodology of risk and vulnerability assessments in the cyberphysical security process
- Various threat levels and how risk is controlled through a graded security approach.





For more information contact



Course Pre/Co-requisites

- Acceptance in UNR Transportation Security Graduate Certification Program.
- Bachelor's degree (preferably in Engineering or related field), basic knowledge of cyber or physical security, pre-assigned reading (which can be completed before the course) and Instructor consent for class admission.

Course Modules

Introduction to Cyber-Physical Security
Discuss the importance of blended cyber-r

Discuss the importance of blended cyber-physical assessments.

Cyber-Physical Fundamentals

REMEMBER and UNDERSTAND key concepts in computer security and physical security.

Architecture and Attack Vectors

Discuss the important considerations for understanding and identifying the architectures and attack vectors associated with cyber-physical security.

Vulnerabilities Assessments
Understand the Vulnerability Assessment.

06

Vulnerability Assessment for a Nuclear Power Plant Understand nuclear and radiological threats.

PACRAT – Physical and Cyber Risk Analysis Tool
Understand nuclear and radiological threats and describe the role of the Second Line of Defense (SLD) Program.

