ABB UNIVERSITY COURSE DESCRIPTION

US926
Cyber Security Services for ABB Automation Systems
Cyber Security Fingerprint

Learn how to perform a Security Fingerprint on an ABB control system.

Course type and methods
This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab.

Student Profile
This course is for ABB personnel who install, commission, support, and maintain ABB control systems.

Prerequisites
Students should have good working knowledge of Windows 7/8.1, Windows Server 2008/2012 R2, TCP/IP Networks, and Microsoft Active Directory administration and troubleshooting. Successful completion of ABB University Courses NA939, NA940, and US925 meets these prerequisites.

Course objectives
Upon completion of this course the participants will be able to:
- Understand and be able to communicate security principles such as "least privilege", "least function", and "defense in depth".
- Be able to answer questions about the requirements of the cyber security standards ABB’s customers are seeking to comply with
- Identify deficiencies in network architecture and make recommendations for proper segmenting of a network into zones
- Identify and have some familiarity with tools and techniques for vulnerability and penetration testing of systems
- Perform a Cyber Security Fingerprint on an ABB control system
- Remediate the deficiencies identified in a Cyber Security Fingerprint
- Configure IPSec on an 800xA system
- Configure Windows Security Event Log and gain basic knowledge of monitoring

Main topics
- Cyber Security Fundamentals
- Cyber Security Standards
- Network Architecture
- The threats - hacker methods/tools/exploits
- Defense - audits and hardening
- Defense - forensics and monitoring

Duration
The duration is 5 days
## Course Outline

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