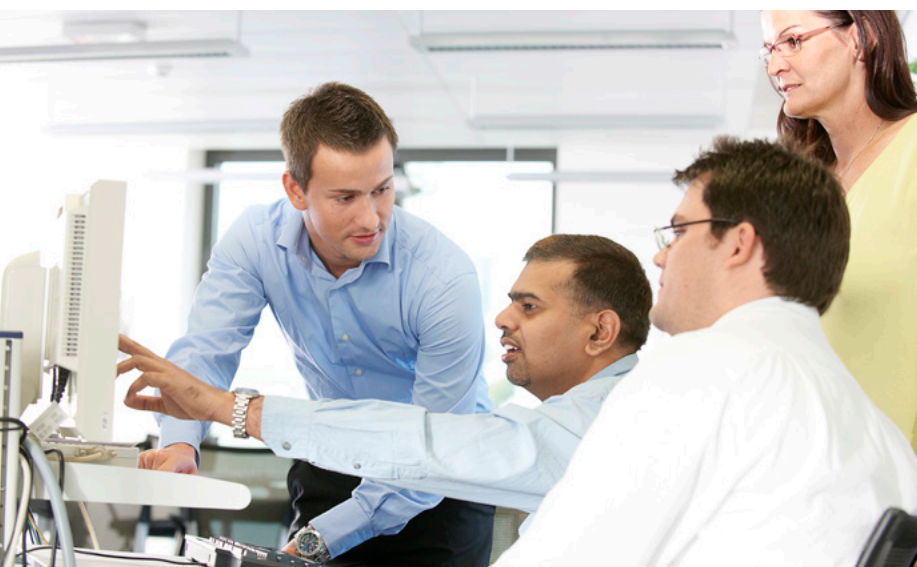


## US926

# 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

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**Course Outline**

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Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none"><li>• Security Principles and Standards</li><li>• Secure Network Architectures</li></ul>	<ul style="list-style-type: none"><li>• Hacker Tools and Techniques</li></ul>	<ul style="list-style-type: none"><li>• The ABB Cyber Security Fingerprint</li><li>• Remediation of Issues Found in Fingerprint</li></ul>	<ul style="list-style-type: none"><li>• IPSec Configuration in 800xA</li><li>• Security Maintenance</li><li>• SE46 White Listing</li></ul>	<ul style="list-style-type: none"><li>• Industrial Defender</li></ul>

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