Course description

NA912
Microsoft TCP/IP for IndustrialIT

Course goal
The goal of this course is to provide students with an in-depth knowledge of Windows technologies in a Process Portal environment.

Learning objectives
Upon completion of this course the participants will be able to:

- Explain the System 800xA architecture and the function of the different components
- Identify common computing models. PANs, LANs, MANs, WANs, Intranet, Extranet, Internet, Token, CSMA/CD, CSMA/CA, 10Base2, 10Base 5, 100BaseTx, etc
- Understand network connectivity devices. Hubs, Repeaters, Switches, V-LANs, Routers, Gateways
- Information delivery Concepts. Circuit Switching, Message Switching, Packet Switching
- Describe the OSI reference model used for networking concepts
- Utilize IP addressing, creating subnets and subnet masks
- Manage protocols in the TCP/IP, directory-related protocol stack
- Implement network security
- Basic Naming technologies and TCP/IP Implementation:
  - Dynamic Host Configuration Protocol (DHCP)
  - Windows Internet Name Service (WINS) / LMHOSTS
  - Domain Name System (DNS) / HOST
- Understand options TCP/IP Networks, Security, Remote access to networks
- Troubleshooting the Network. TRACERT, NSLOOKUP, PING, PATHPING, IPCONFIG, NETSTAT, NBTSTAT, NeoTrace, Port Scan Pro, Network Monitor

Participant profile

Prerequisites
NA910 Microsoft Windows Technologies for IndustrialIT.

Course type and methods
This course is a sequel to NA910 and covers Windows advanced networking concepts as applied to a Process Portal installation. This course will prepare the students for our ABB Process Portal version A and B application systems which runs as an integrated service on the Microsoft Windows networking platform.

Duration
The duration is 5 days.
Course outline

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