

AV-over-IP Training Course Agenda

Install – Configure – Design

Overview	This day-long course starts with an interactive session covering the basics of IP networking, followed by hands-on training exploring an AV-over-IP system. It includes the installation, configuration and management aspects of the system including encoders and decoders as well as the management platform, which drives configuration and content management.
Objectives	<p>Upon completion of the course, attendees will be able to:</p> <ul style="list-style-type: none"> • Understand the basics of IP network communication • Describe the OSI communication model • Understand the TCP/IP suite of protocols • Understand how to leverage IP networks for AV solutions • Understand the capabilities of AV over IP • Understand the IP network infrastructure requirements to deploy a system effectively • Select the appropriate switch for deployment • Install and configure an AV-over-IP system • Interact with a management platform
Prerequisite	<p>Before taking this course, we recommend that attendees have the following knowledge:</p> <ul style="list-style-type: none"> • Basic knowledge of IP network devices, networking protocols and network topologies • Familiarity with audio and video signals, connectivity and digital media

Course Content

<p>Introduction to IP</p> <ul style="list-style-type: none"> ✓ Introduce the OSI communication model ✓ Explain the various TCP/IP communication protocols ✓ Unicast, broadcast and multicast – the importance for AV solutions ✓ IPv4 overview – the anatomy of an IP address ✓ IP relationships between layers 	<p>Understand Devices</p> <ul style="list-style-type: none"> ✓ Ethernet switch functionality and requirements ✓ Digital media encoder ✓ Digital media decoder ✓ Management platform 	<p>Install the AV over IP System</p> <ul style="list-style-type: none"> ✓ Deploy the system using a management platform and configuration tool ✓ Hardware device detection ✓ Configuration of hardware ✓ Using display zones, multiview, and video wall functionality 	<p>Design and Implement the System</p> <ul style="list-style-type: none"> ✓ Understand the system design prerequisites ✓ Explain the system deployment options ✓ IP switch and network considerations
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All attendees of the course will earn 2.5 CTS credits towards InfoComm Certification.