

# Fundamental Solution Training / IP Video Surveillance

## Duration

One day.

## Delivery Format

Classroom-based, instructor-led.

## Intended Audience

Technicians installing Allied Telesis switches in an IP video surveillance environment. The course is designed as a hands-on introduction to IP networking, preparing students to use the Graphical User Interface (GUI) of Allied Telesis switches. The course is also a good foundation to lead in to the Certified Allied Technician course.

## Prerequisites

Good basic experience of using a computer. No prior knowledge of IP networking is necessary.

## Continuing Education

Effective November 10, 2011, BICSI recognizes



this course for the following BICSI Continuing Education Credits (CECs):

- » RCDD (6)
- » RITP (6)
- » ESS (6)
- » NTS (6)
- » Installer 2 Copper/Fiber (6)
- » Technician (6)
- » Certified Trainer (6)

Visit [www.bicsi.org](http://www.bicsi.org) for information.

## Scheduling

To learn more or schedule a class, visit [alliedtelesis.com/training](http://alliedtelesis.com/training) or email:

NORTH AMERICA

» [na\\_training@alliedtelesis.com](mailto:na_training@alliedtelesis.com)

EUROPE

» [training.eu@alliedtelesis.com](mailto:training.eu@alliedtelesis.com)

## Introduction

This course teaches technicians how to install and configure Allied Telesis switches in an IP video surveillance environment. The course is designed with a major focus on hands-on tasks, mainly using the graphical user interface (GUI) to configure the products.

## Objectives

After completion of the course, attendees will be able to:

- » Understand how networks are architecturally split into the edge and the core sections.
- » Describe the differences between Layer 2 and Layer 3 switches.

## Learn More

[alliedtelesis.com/training](http://alliedtelesis.com/training)

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- » Understand what makes IP security networks unique and what the design requirements are.
- » Identify the key criteria for deploying a switched infrastructure in a basic IP video surveillance design.
- » Understand and use the different configuration methods available for Allied Telesis edge switches, using both the CLI and GUI.
- » Using the Allied Telesis GUI, be able to configure basic switching features needed for IP video surveillance.

## Key Products

8100L Series, 8100S Series.

## Course Outline

### Hardware Overview

An overview of Allied Telesis products and the switches used during the course. (30 minutes)

### Introduction to IP Video Surveillance

An introduction to the basic requirements and concepts of IP video surveillance. Network design is discussed, starting with general high-level designs, then introducing specific products, and ending with more specific design scenarios. Concepts such as multicast vs. unicast are discussed and what features to look for when selecting a switch for various parts of the network. (90 minutes)

### The Local Area Network (LAN)

The basics of Ethernet and IP, such as the OSI model, how Ethernet switching works and the difference between Layer 2 and Layer 3 switches. (90 minutes)

### Basic Switch Configuration

How to configure a basic switch, first by giving it an IP address, then connecting to its Web interface. Once connected, the students will configure the way the switch and network operates. (60 minutes)

### Power over Ethernet (PoE)

How PoE works and how to implement it properly are topics discussed in this section. Afterward, students will plug in their camera and get it operational, before learning more tricks and tips they can use on their switch. (90 minutes)