

# High-Touch Delivery Learning Services

## Introduction to Video Compression (VIDEOC)



The Introduction to Video Compression instructor-led course introduces digital video compression terminology, how video compression is processed, and how it is used in broadband systems today. For technical personnel who require a deeper understanding of the video compression techniques that are utilized in headend components, this instructor-led training (ILT) course takes your knowledge to a more concentrated level. This course introduces various video signals, the industry-standard compression techniques that are used for audio and video, how encoders work with the compressed video data, a closer look at the parts of a video stream, and how video signals are encrypted for security. A key component of this course is the most current compression standards in use today, including MPEG-4 and H.264.

### Duration

Two days.

### Target Audience

This course is designed for technical professionals who would like to learn more about video compression technology. The primary audience for this course includes:

- System engineers
- Technical support personnel
- Channel partners, resellers

### Course Objectives

Upon completion of this course, you should be able to:

- Describe the difference between analog and digital signals
- Identify three modulation types
- Describe the benefit of compression
- Identify the two main standards currently used for video compression
- Identify one common audio compression standard
- List four components of an MPEG transport stream
- Describe the purpose of encryption

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## Course Prerequisites

Following are the prerequisites for this course:

- None

To locate Cisco® courses that cover the listed prerequisites, refer to [www.cisco.com/go/ase](http://www.cisco.com/go/ase).

## Course Outline

The course outline is as follows:

- I. Vision and Video
- II. Analog and Digital Video Signals
- III. Modulation Techniques
- IV. The Need for Video Compression
- V. Video Compression Methods (MPEG-2)
- VI. MPEG-4 and H.264
- VII. Audio Compression
- VIII. Compression Process (Encoders)
- IX. Transport Streams
- X. Encryption

## Registration Information

For more information about schedules and registration for this course, contact [aeskt\\_registration@cisco.com](mailto:aeskt_registration@cisco.com).

## For More Information

For more information on High-Touch Delivery Learning Services for Cisco classic products and technologies, refer to [www.cisco.com/go/ase](http://www.cisco.com/go/ase).

For information on Cisco TelePresence® training, refer to [www.telepresenceu.com/](http://www.telepresenceu.com/).

For information on broadband video training for service providers, refer to [www.cisco.com/go/spvtraining](http://www.cisco.com/go/spvtraining).



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