



---

# Optimizing Media Services

## COURSE OVERVIEW



**Course Modality**  
Classroom  
+ hands-on labs



**Course Time**  
40 Minutes



**Course Level**  
Intermediate



**Course Language**  
English

Before you can use AWS Elemental MediaConvert to transcode video files, you need to perform tasks in Identity and Access Management (IAM) and Amazon Simple Storage Service. In this tutorial, you will learn how to create a role for AWS Elemental MediaConvert in IAM. You'll also learn how to create and configure input and output buckets using Amazon S3.

### Prerequisites:

There are no prerequisites for this course.

### Intended Audience:

This course is intended for:

- ✓ to convert video content for delivery to consumer devices.
- ✓ learn how use AWS AI services to automate global video captioning, subtitling, and audio tracks for a streaming video.

### Skill Covered:

- ✓ Create a role for MediaConvert in AWS Identity and Access Management (IAM).
- ✓ Use Amazon Simple Storage Service (Amazon S3) to create an input bucket for source video content and an output bucket for your converted assets.
- ✓ Generate a transcript of a video using Amazon Transcribe.
- ✓ Translate the transcript into an alternate language using Amazon Translate.
- ✓ Transform the alternate language transcript into alternate language audio using Amazon Polly.
- ✓ Construct an Apple HLS Stack using AWS MediaConvert.
- ✓ Validate that audio and captions/subtitles work as intended within a video player

## COURSE CURRICULUM

### Module 1:

Setting Up and Configuring AWS Elemental MediaConvert

- ✓ Overview
- ✓ Demonstration

### Module 2:

Create streaming video with captions, subtitles, and audio tracks using AWS AI services

- ✓ Create closed captions using Amazon Transcribe
  - Why do I need captions?
  - Turn the transcript into captions
- ✓ Create alternate language subtitles using Amazon Translate
  - Why do I need alternate language subtitles?
  - Turn the translations into subtitles
- ✓ Create alternate language audio tracks using Amazon Polly
  - Why text-to-speech?
  - Right-size text to speech
- ✓ Create streaming video using AWS Elemental MediaConvert
  - Why streaming video?
- ✓ Automate the process
  - From prototype to automation
  - Create a better transcript
  - Create a better translation
  - Create a better audio track