

# Multi-Access Edge Computing (MEC)

Multi-Access Edge Computing (MEC) pushes cloud-computing capabilities closer to the user across multiple access network domains. This course provides an overview of the MEC framework, the underlying technology and its use cases.

## Intended Audience

A high-level technical overview to personnel involved in product management, marketing, planning, design, engineering, and operating wireless (4G, 5G) and wireline access networks

## Objectives

After completing this course, the student will be able to:

- Define Multi-Access Edge Computing (MEC)
- List the key use cases and benefits of MEC
- Illustrate the ETSI reference architecture for MEC
- Identify key technology enablers for MEC
- Describe how MEC interacts with the rest of the 5G network

## What You Can Expect

- Prerequisite: 5G Core Network Overview
- Self-Paced Duration: 4 HOUR

## Outline

### 1. What and Why MEC?

- 1.1 What is MEC and Why?
  - 1.2 Benefits of MEC
  - 1.3 Location considerations for MEC deployment
- Exercise: Knowledge check

### 2. Enabling Technologies for MEC

- 2.1 Enablers for MEC - Edge cloud, NFV, SDN
  - 2.2 5G RAN and 5G Core for MEC
  - 2.3 Role of Service-Based Interface (SBI) and API
- Exercise: Knowledge check

### 3. MEC Architecture

- 3.1 MEC architecture of ETSI and 3GPP
  - 3.2 MEC and 4G-5G together
- Exercise: Design and deploy MEC in 5G  
Exercise: Knowledge check

### 4. MEC Operations and Deployment Scenarios

- 4.1 MEC operations
  - 4.2 MEC deployment scenarios
- Exercise: Step through MEC operations  
Exercise: Knowledge check

Putting it all together

Final assessment