

# NFV Overview

Wireless, wireline and cable service providers are on the cusp of a multitude of network and business transformation choices. A good conceptual understanding of the new networking and wireless, wireline and cable service provider business paradigms is essential for professionals in the communication industry. This course provides a high-level view of Network Functions Virtualization (NFV), including the motivations, challenges, and impact of NFV, the key components of the NFV architecture, and several NFV examples.

## Intended Audience

The course is intended for all that are interested in understanding what NFV is and how it will transform the Wireless, Wireline and Cable service provider network over the next few years.

## Objectives

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

- Describe the concept of Network Functions Virtualization
- List the motivations, challenges and impact of NFV
- List the key components of the NFV architecture

## What You Can Expect

- Self-Paced Duration: 1 HOUR

## Outline

- 1. NFV Overview**
  - 1.1 Network Functions Virtualization (NFV)
  - 1.2 NFV defined
- 2. NFV Motivation and Benefits**
  - 2.1 Motivation for NFV
  - 2.2 Potential NFV benefits
- 3. NFV Architectural Framework**
  - 3.1 NFV framework
  - 3.2 High-level NFV framework
- 4. NFV Challenges**
- 5. NFV and IMS**
  - 5.1 Simplified IMS functions
  - 5.2 Virtualized IMS functions
- 6. NFV and LTE**
- 7. NFV and Content Delivery Networks**
- 8. NFV Examples**
  - 8.1 Hardware failure
  - 8.2 NFV for elastic capacity
- 9. End of Course Assessment**