Operationalizing Cisco Enterprise 5G Solutions (5GCOPS)

Price: 4495

Duration: 5 days

Delivery Methods: Virtual

Overview

5G promises to enable a wide variety of new wireless communications services and capabilities, ranging from high-speed, high-capacity broadband access to extremely reliable low-latency communications to machine-type communications on a massive scale. The degree of innovation introduced with 5G is driving the adoption of Private and Enterprise network integration. Integrating 5G in the Enterprise is becoming a strategic requirement as companies look to support new use cases and provide new services with improved business outcomes and customer experience.

To deliver on these promises, everything about the wireless network must change, including the devices, the radio interface, the radio access network (RAN), and the core network. This course is for both technical and non-technical students, offering a high-level end-to-end overview of 5G networks.

This course will outline the new technologies introduced with 5G, including the devices, the radio interface, the radio access network (RAN), and the core network. This course focuses on the principles of the 5G core network, its connectivity to the radio network, and interworking with the 4G EPC. We will explore the business drivers, use-cases, and leading practices for Enterprise 5G adoption and explore options for Private 5G networking, as well as topics such as Service-Based Architecture (SBA), PDU Session Establishment, Network Slicing and Multi-Access Edge Computing (MEC), Private 5G Security, and WI-FI 6 as they relate to 5G and 5G Operations.

About the course

Prerequisites:

The knowledge and skills that the learner should have before attending this course are as follows:

- Basic knowledge of networking concepts
- Basic knowledge of Wi-Fi concepts
- Basic knowledge of 4G LTE concepts

Course Objectives:

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe the 5G usage scenarios as defined by the ITU and 3GPP
- Identify the technology building blocks required for 5G Implementation
- Explain the key enhancements to the 5G RAN and core network architectures
- Discuss benefits of enhanced network capabilities, such as MEC, network slicing, and C-RAN
- Identify the new spectrum bands being considered for 5G
- Discuss radio interface enhancements
- Discuss WIFI6 and 5G Interaction and Operation
- Describe the advantages and opportunities 5G presents to the Enterprise
- Describe the leading practices in Enterprise and Private 5G use-cases and integration
- Explain the fundamentals of 5G security in Private and Enterprise deployments

Who Should Attend

The primary audience for this course is as follows:

- Network Architects
- Application Developers
- Implementation Engineers
- Account Managers
- Project Managers
- Pre-sales Engineers

Course content

Section 1 – Introduction to 5G Technologies

Section 2 – 5G Network Architecture-Core Network

Section 3 – Procedures in 5G Networks

Section 4 – 5G and WI-FI 6 Co-existing

Section 5 – 5G Enterprise Advantage – Edge

Section 6 – Private 5G Advantage – Security and Operations

Course Schedule

Date	Time	Price	Options

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