

Certified 5G For Management

Duration: 2 Days

COURSE DESCRIPTION

The Certified 5G Management course is a cutting-edge professional development program designed to equip technology leaders with comprehensive insights into 5G network management and strategic implementation. Participants will explore critical aspects of 5G infrastructure, including network architecture, performance optimization, and advanced operational strategies essential for modern telecommunications environments. The curriculum provides deep insights into 5G technology, network orchestration, and emerging management paradigms that drive digital transformation across industries. Through expert-led training, professionals will gain the strategic skills and technical knowledge required to effectively lead and manage complex 5G network ecosystems in rapidly evolving technological landscapes.

COURSE OUTLINE

Day 1

Introduction to 5G technology

- Evolution of mobile technologies from 1G to 5G
- 5G technology features
- Comparing 5G and 4G
- 5G spectrum allocation and assignment
- 5G preparation, deployment, and utilization
- 5G deployment scenarios
 - Enhanced Mobile Broadband (eMBB)
 - Massive Machine-Type Communications (m-MTC)
 - Ultra Reliable Low Latency Communications (URLLC)
 - Fixed-wireless access (FWA)
- Technologies driving the 5G evolution

Socio economic impact from the introduction of 5G

- Societal change and economic contributions
- Global 5G deployment
- 5G application and specialized services
- 5G value chain outlooks
 - AI/ML
 - Big Data
 - High-performance computing (HPC)

Advanced 5G Technologies

- 5G Overall Architecture
- Network Slicing
- Network Functions Virtualization (NFV)
- Frequency Allocation for 5G Networks
- 5G Technology Stack
- IPv6 for 5G
- 5G Worldwide Implementation

5G EMF Radiation Health Issues

- 5G EMF base station Radiation
- 5G Device Radiation.
- Relationship between 5G Device and Base station
- SAR Compliance
- Ionizing Radiations
- Organizations working on EMF exposure issues
- ITU activities on EMF exposure issues

Day 2

Business models for 5G deployment

- B2C, B2B and B2B2X 5G deployment business models
- Business-to-consumer (B2C)
- Business-to-business (B2B)
- Business-to-business-to-any (B2B2X)

5G Implementation scenarios and Case Studies

- AR/VR
- Video surveillance
- Public Transport
- Financial Services and Banking
- Media and Entertainment
- Public Safety
- Automotive
- Healthcare
- IoT and fleet management
- Smart Manufacturing
- Energy and Utilities

5G Deployment in Malaysia

- 5G Deployment Architecture in Malaysia
- Comparison of 5G Deployment in Malaysia vs Other Models
- How would a SME or Organization benefit from 5G connectivity?
- What are the manpower and technical investments needed to implement 5G?

Group Work & Assessment

Case study on Implementing 5G for your organization (30 Mins)

- Group Assignment.
- An experienced Coordinator will be assigned to each group to assist in developing the case study.

Presentation & Discussion (60 Mins)

- Each Group will present their case study.
- Includes Discussions, Q&A.

WHO SHOULD ATTEND

This course is designed for managers and non-engineers including sales, marketing, business development, analysts, finance, HR, procurement, and other disciplines who need a clear picture of 5G technology.