



# Telecom Courses

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*We also consult ([technical](#) , [soft skills](#)) and publish [market research](#) on telecom and engineering.*

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## Cutting-Edge Courses

- **500+ specialty courses** based on first-hand tech experience\*, many available only from us
- **Customized to *your* technical needs**; synched with state-of-the-art and industry best-practices
- **Balanced mix of theory and practical know-how**

*\*The Eogogics team has been involved in ground-breaking technology projects worldwide for 25+ years!*

## Best-in-Class Instructors

- **Subject Matter Experts:** High degrees *plus* 25+ years as Subject Matter Experts in the real-world
- **Distinguished Resumes:** Patents, publications, conference presentations, awards, honors
- **Outstanding Presenters:** Dynamic, entertaining, engaging .... with a passion to share knowledge!

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quick links, and more!

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Cutting-Edge Courses, Best-in-Class Instructors

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**500+ publications covering emerging technologies such as:**

- 5G and 6G Wireless
- M2M Communications
- Internet of Things (IoT), Industrial IoT (IIoT), Internet of Nanoscale Things (IoNT), and related topics
- Artificial Intelligence (AI)
- Big Data
- Cloud Computing
- Smart Homes, Buildings, Workplaces, Factories, and Cities
- Connected Vehicles, Consumer Devices, and Manufacturing
- Virtual Reality, Drones, FinTech ... and much more



**Visit our research publications Store**

# Eogogics Telecom Curricula



# Wireless: 5G Wireless

## 5G Wireless Technology

Days, Title (*click to view course outline*)

- 4 [5G Wireless Training: Layers 1, 2, 3](#)
- 5 [5G Layers 1-3 with Emphasis on e-CPRI](#)
- 3 [5G Wireless Priority Services Training](#)
- 5 [5G RAN Training: Technology & Planning](#)
- 5 [5G Wireless Technology/Applications for Business](#)
- 5 [5G Security, D2D Support, Proximity Services, IoT, Adv. Features](#)
- 3 [5G Radio Network Technology Training](#)



## 5G Wireless Technology (contd.)

Days, Title (*click to view course outline*)

- 5 [5G Mobile Backhaul & 5G Private Networks](#)
- 2 [LTE/LTE-A and 5G Wireless Training](#)
- 5 [5G Stand Alone \(SA\) Protocols & Signaling Training](#)
- 3 [5G Non-Stand-Alone Signaling Training](#)
- 2 [5G NHN and Network Slicing Training](#)
- 2 [Private/Non-Public Networks \(NPN\) Training](#)
- 2 [5G New Radio Training](#)
- 1 [5G Highlights Training](#)
- 4 [Evolution of LTE to 5G Wireless](#)
- 4 [5G Wireless: Technology & Policy](#)
- 1 [5G Wireless: Federal/Defense Applications](#)
- 7 [All Wireless: 5G, 4G LTE, UMTS, GSM, WiMAX, CDMA, M2M, IoT, SDN, Security](#)

# Wireless: 4G LTE and WiMAX

## LTE Courses

Days, Title (*click to view course outline*)

- 5 [LTE & LTE-A RAN Design & Optimization](#)
- 4 [LTE / LTE-A Deep Dive: RAN and Core](#)
- 4 [LTE-A: Release 10, 11 & Beyond](#)
- 3 [VoLTE \(Voice over LTE\) and Alternatives](#)
- 4 [LTE & IMS Interwork](#)
- 4 [LTE: Emergency, Priority Access, Public Safety Support](#)
- 5 [3G/LTE Performance Analysis & Optimization](#)
- 5 [LTE/HSPA Intertechnology Optimization](#)
- 2 [LTE & UMTS/HSPA Location Based Services for E911](#)
- 3 [LTE Tutorial](#)
- 2 [LTE Technology & Business](#)
- 2 [LTE/SAE Fundamentals](#)
- 4 [LTE Functionality](#)
- 3 [LTE/SAE Technology](#)
- 5 [LTE Network Planning](#)
- 5 [LTE: RF Network Design](#)
- 4 [LTE Optimization](#)
- 4 [LTE Air Interface Techniques](#)
- 3 [LTE Signaling](#)
- 3 [LTE/SAE NGN Transport](#)



## WiMAX Courses

Days, Title (*click to view course outline*)

- 3 [WiMAX – Comprehensive](#)
- 2 [WiMAX](#)
- 3 [WiMAX & Mobile WiMAX](#)
- 3 [WiMAX Traffic & Capacity Engineering](#)
- 5 [WiMAX/Mobile WiMAX Planning/Optimization](#)

## Related Courses

Days, Title (*click to view course outline*)

- 5 [All Wireless: 5G, 4G LTE, UMTS, GSM, WiMAX, CDMA, M2M, IoT, SDN, Security](#)
- 2 [IMS – Comprehensive](#)
- 2 [Traffic Engineering – Multimedia Networks](#)
- 2 [VoIP](#)



# Wireless: M2M, Bluetooth, WiFi, ZigBee

## M2M, IoT, and Related Courses

### Days, Title (click to view course outline)

- 5 [Wireshark Training: Advanced Network Analysis and Troubleshooting](#)
- 5 [IoT-enabling Technologies Training: IEEE 802.15.4, WLLN, ZigBee, WAVE, Next Gen WiFi](#)
- 3 [M2M Training: Machine-to-Machine Communications and Machine Learning](#)
- 2 [M2M Course with IoT and LTE](#)
- 3 [IoT Training: In Depth](#)
- 2 [Internet of Things \(IoT\): IoT Workshop](#)
- 1 [Internet of Things: IoT & IoT Security Training](#)
- 1 [Internet of Things \(IoT\): IoT Overview](#)
- 2 [Cloud Computing Training In-Depth: Evaluating, Designing, and Implementing Cloud Solutions](#)



## Bluetooth, WiFi, and ZigBee Courses

### Days, Title (click to view course outline)

- 3 [BLE: Bluetooth Low Energy Training](#)
- 4 [Bluetooth Course: Operation, Security, Applications, Coexistence](#)
- 5 [Bluetooth in Depth](#)
- 2 [WiFi Training in Depth: Technology, Security, Deployment ... with M2M, IoT, 5G](#)
- 2 [Advanced Wi-Fi Training: Technology, Security, Deployment; Coexistence with LTE and 5G](#)
- 2 [WiFi Hands-on](#)
- 1 [WiFi for Managers](#)
- 4 [Metropolitan WiFi](#)
- 2 [Wi-Fi, Bluetooth & BLE Physical Layers Training](#)
- 2 [IoT: RF, Wi-Fi, Bluetooth LE \(BLE\), Zigbee & Thread Training](#)
- 2 [ZigBee Hands-on](#)

# Wireless: iDEN™, TETRA

## iDEN™ and TETRA Courses

Days, Title *(click to view course outline)*

- 3 [TETRA Overview](#)
- 3 [TETRA Performance and Optimization](#)
- 7 [TETRA in Depth with RF Basics](#)
- 3 [TETRA](#)
- 4 [iDEN™](#)
- 2 [Traffic Engineering – Multimedia Networks](#)



# SATCOM

## Satellite Communications Courses

**Days, Title (click to view course outline)**

- 5 [Satellite Communications: Earth Station Design & Analysis](#)
- 2 [Satellite Communications: Commercial, Military](#)
- 1 [Satellite Communications for Managers](#)
- 1 [VSAT Design, Installation, Program Management](#)



## Related Courses

**Days, Title (click to view course outline)**

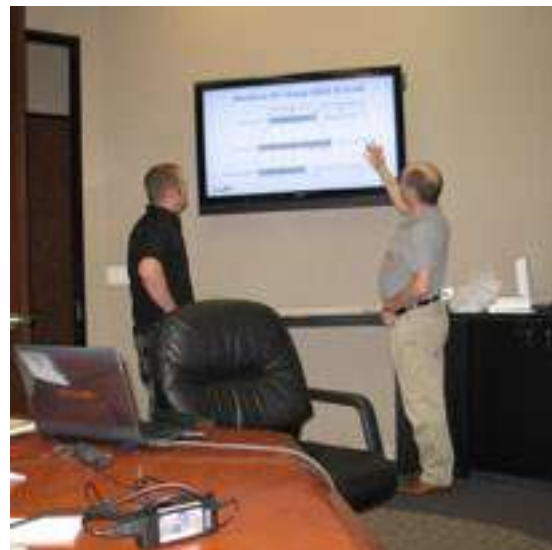
- 1 [Antennas](#)
- 3 [RF Systems](#)
- 4 [RF for Technicians](#)
- 2 [Traffic Engineering – Multimedia Networks](#)

# RF Systems

## RF, HF/VHF, and Microwave Systems Courses

### Days, Title (*click to view course outline*)

- 4 [IEEE WCET Exam: RF Propagation, Analysis, Design](#)
- 3 [IEEE WCET Exam: Wireless Access, Network Architecture, Management, Security, Facilities](#)
- 5 [RF for Land Mobile & Public Safety Radio](#)
- 3 [RF Systems](#)
- 4 [Radio Systems Analysis & Design](#)
- 4 [RF for Technicians](#)
- 2 [RF Propagation, Fading, Link Budget Analysis](#)
- 3 [RF and Microwave Maritime Training](#)
- 2 [Microwave & Fixed LOS Link Design](#)
- 8 [Microwave Engineering – Comprehensive](#)
- 4 [Microwave & Fixed LOS Link Design in Depth](#)
- 1 [Antennas](#)
- 1 [HF Communications](#)
- 4 [Signal Processing](#)



# SDN/NFV, Cloud, General Networking

## Courses: IoT, Blockchain, Other New Tech

### Days, Title (*click to view course outline*)

- 1 [Blockchain: Distributed Ledger Technology Overview](#)
- 3 [IoT Training: In Depth](#)
- 2 [Internet of Things \(IoT\): IoT Workshop](#)
- 1 [Internet of Things \(IoT\): IoT Overview](#)
- 1 [Internet of Things: IoT & IoT Security Training](#)
- 2 [Modern Telecommunications Overview](#)



## Courses: Networks (General)

### Days, Title (*click to view course outline*)

- 2 [Cyber Security & Cyber Warfare](#)
- 2 [Cyber Space & Cyber Conflict Policy](#)
- 2 [Traffic Engineering – Multimedia Networks](#)
- 2 [Traffic Engineering – Voice/Data](#)
- 3 [Economics for Telecom Engineers](#)
- 3 [Network Security](#)
- 5 [Networking Principles](#)
- 5 [Switching/Routing](#)
- 2 [Ethernet OA&M](#)
- 2 [ATM Advanced](#)
- 3 [ATM](#)

## SDN, NFV, Cloud Computing Courses

### Days, Title (*click to view course outline*)

- 2 [SDN/NFV: Software Defined Networks & Network Functions Virtualization](#)
- 1 [SDN: Software Defined Networks](#)
- 2 [Cloud Computing Training In-Depth: Evaluating, Designing, and Implementing Cloud Solutions](#)
- 3 [Cloud Computing Standards & Protocols](#)
- 3 [Cloud Computing Security](#)

# IoT, IPv6, VoIP, MPLS, SNMP

## M2M, IoT, and Related Courses

### Days, Title (*click to view course outline*)

- 5 [Wireshark Training: Advanced Network Analysis and Troubleshooting](#)
- 5 [IoT-enabling Technologies Training: IEEE 802.15.4, WLLN, ZigBee, WAVE, Next Gen WiFi](#)
- 3 [M2M Training: Machine-to-Machine Communications and Machine Learning](#)
- 2 [M2M Course with IoT and LTE](#)
- 3 [IoT Training: In Depth](#)
- 2 [Internet of Things \(IoT\): IoT Workshop](#)
- 1 [Internet of Things: IoT & IoT Security Training](#)
- 1 [Internet of Things \(IoT\): IoT Overview](#)
- 2 [Cloud Computing Training In-Depth: Evaluating, Designing, and Implementing Cloud Solutions](#)

## MPLS Courses

### Days, Title (*click to view course outline*)

- 2 [MPLS](#)
- 2 [MPLS Applications](#)
- 1 [MPLS Short Course](#)
- 2 [MPLS: Engineering, Applications, QoS](#)

## Courses: IMS, SIP, VoIP, EoIP

### Days, Title (*click to view course outline*)

- 2 [IMS – Comprehensive](#)
- 4 [LTE & IMS Interwork](#)
- 5 [Everything over IP \(EoIP\)](#)
- 2 [VoIP](#)
- 2 [VoIP Security](#)
- 1 [VoIP for Managers](#)
- 3 [SIP Architecture & Security](#)
- 5 [Convergence+](#)

## IP and Mobile IP Courses

### Days, Title (*click to view course outline*)

- 3 [TCP/IP Networks Overview](#)
- 2 [TCP/IP Networks: Advanced Topics](#)
- 1 [TCP/IP Short-course](#)
- 5 [IP Networks – Comprehensive](#)
- 2 [IPv6 Implementation](#)
- 2 [IPv4/v6 and Migration](#)
- 2 [TCP/IP & Mobile IP](#)
- 2 [TCP/IPv6](#)
- 2 [Mobile IP](#)



## SNMP Courses

### Days, Title (*click to view course outline*)

- 3 [SNMP](#)
- 1 [SNMPv3 – Secure SNMP](#)
- 1 [SNMP Agent Development](#)

# SS7, CAMEL, Diameter

## Courses: CAMEL, SS7, Diameter

Days, Title (click to view course outline)

- 3 [CAMEL](#)
- 3 [CAMEL – Advanced](#)
- 4 [Diameter Protocol](#)
- 2 [SS7/C7 Overview](#)
- 3 [SS7/C7 Protocols/Operation](#)
- 4 [SS7/C7 in Depth](#)



# Optical: GPON, SONET/SDH, DWDM

## Courses on Optical Networks: GPON, SONET/SDH, DWDM

Days, Title (*click to view course outline*)

- 5 [GPON Backhaul Training for LTE-5G Networks](#)
- 4 [LAN Systems and SONET/SDH](#)
- 2 [SONET/SDH Technology & Design](#)
- 4 [SONET/SDH – Advanced](#)
- 2 [DWDM – Introduction](#)
- 2 [DWDM – Advanced](#)
- 2 [Optical Networking for Managers](#)
- 3 [Fiber Optics \(LightMASTER\) Training](#)





# TM Forum Methodologies

## Courses: TM Forum Framework, eTOM, SID, TAM

### Days, Title (*click to view course outline*)

- 1 [SID Overview](#)
- 3 [eTOM & SID Workshop](#)
- 3 [Framework: eTOM, SID, TAM](#)
- 1 [Framework & eTOM Overview](#)



# Lot More Info at Your Fingertips

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