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- Engineering: Systems (Methodology, Best Practices, Management), Unleashing Engineering Creativity, GD&T, Tolerance Analysis, Poka Yoke, Materials and Processes (Metals, Plastics), Manuf. Leadership
- **Software Engineering:** Principles, Writing Requirements, Configuration Management, Testing, Project Management, Project Estimation, Quality Assurance
- Statistics, Process Controls: Industrial Statistics, Design of Experiments, Statistical Process Control
- Reliability Engineering: Root Cause Failure Analysis (RCFA), Failure Modes and Effects Analysis (FMEA)
- Networks: Design/Implementation, Traffic Engineering, Security, Management (SNMP, Ethernet OAM)
- Data Networks: Cloud Computing, Cyber Security, Carrier Ethernet, ATM, BGP, IP Geo-location
- NextGen/Multimedia: IPv6, MoIP, IP Sec, MPLS, IMS, SIP, SIP Sec, VoIP, VoIP Sec, EoIP, IP TV
- Intelligent Networks: CAMEL, SS7, IMS, SIP
- Optical Networks: SONET/SDH, DWDM, CWDM
- 5G and 4G Wireless: 5G (Cognizant Radio, SDR, DSA), 4G (LTE, WIMAX), OFDM/MIMO
- **3G**, **2.5G**/**2G**, **and Other Wireless: 3G** (UMTS, HSPA), GSM, GPRS/EDGE, CDMA,1xRTT, EVDO, iDEN[™], TETRA, MPBN, MVNO, WiFi, Bluetooth, Mobile TV, Positioning/Location, LBS
- **RF Systems:** RF, RF Safety, HF/VHF, Propagation/Fading, Antennas, Microwaves, SATCOM, Spectrum Engineering and Management, Signal Processing
- Other Telecom: Mobile Backhaul, OSS/BSS (Frameworx, eTOM, SID, TAM), Unified Comm., IEEE WCET
- **Defense, Public Safety and Security:** Emerging Technologies, 5G/4G/3G (Defense/Government Uses), Cyber Security/Warfare, Data/Infrastructure Security, E911, 911 (Voice and VoIP), CALEA
- Technical Management and Communications: Project and People Management, Delivery Performance Improvement, Quality Management, Cost Reduction, Engineering Economics, Offshore Supplier Management, Virtual Management, Virtual Collaboration, Out-of-the-Box Thinking, Problem Solving, Technical Writing, Proposal Writing, Technical Presentations
- Soft Skills: Time/Stress Management., Team-play, Conflict Management., Delegation, Coaching, Negotiation, Influencing, Difficult Employees, Supervision, Management, Leadership, Leading Up, Strategic Analysis/Planning, Consulting, Customer Service, Sexual Harassment, Workplace Violence, Diversity, HR Metrics, Career Transition

How to Use This Catalog

Embedded in this document are live hyperlinks that allow you to cross-reference back and forth within this document as well as to link with our website to obtain more detailed info. To follow these links, click where indicated.

Check out Our Website and Other Catalogs:

This catalog lists our technology courses; a separate catalog lists our soft skills offerings. It's updated once a year, while our curriculum is constantly growing and evolving. So for the most comprehensive and up-to-date listings, be sure to browse our website.



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Telecom for Non-engineers: SS7, NextGen, MPLS, IMS, VoIP, IPTV, Cyber Security/Warfare, Cloud Computing, Mobile Backhaul, RF, HF, SATCOM, Wireless (General), 3G, 4G (LTE, WiMAX), 5G, WiFi, Bluetooth, and More....24

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Engineering: General, Mechanical and Manufacturing, Materials and Processes, Systems; and Product, Process, and Operations Optimization

Course ID	Days	Course Title
		Engineering Mathematics and Economics
INDSTAT	2	Industrial Statistics: A Tutorial
DOE1	1	Design of Experiments: An overview
DOE2	2+	Design of Experiments: A Comprehensive Course and Workshop
SPCON	3	Statistical Process Control
ECONENG	2	Engineering Economics: A Comprehensive Workshop
		Engineering Design
ENG-CREATE	2	Unleashing Engineering Creativity Workshop
ENGCREATE3	3	Unleashing Engineering Creativity: A Comprehensive Workshop
GDT3D	3	Geometric Dimensioning & Tolerancing (GD&T) Workshop
GDT	2	Geometric Dimensioning and Tolerancing
S-TOL-ANAL	2	Statistical Tolerance Analysis: A Comprehensive Workshop
TOL-GDT	2	Tolerance Stack Analysis Using GD&T
POKAYOKE	2	Poka-Yoke: A Comprehensive Workshop for Improving Product and Process Quality By Preventing Defects
PRINTREAD	1	Print Reading Workshop for Engineers and Support Personnel
RELENG	3	Reliability Engineering Workshop
	Μ	aterials and Processes (Including Metals and Plastics)
MPPC	1	Metal Parts and Process Capabilities: A Comprehensive Workshop
PLST-OTHR	2	Materials and Methods: Designing for Plastics vs. Other Materials
PLAST-MS	4	Plastic Materials Selection
PLST-DES	3	Plastics: Design for Producibility, Molds, and Molding
PLAST-FA	3	Plastic Parts Failure Analysis Table of
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SPCON	3	Statistical Process Control
POKAYOKE	2	Poka-Yoke: A Comprehensive Workshop for Improving Product and Process Quality By Preventing Defects



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FMEA	2	Evilure Modes and Effects Analysis, A Comprehensive Workshop
FINICA	Z	Failure Modes and Effects Analysis: A Comprehensive Workshop
RCFA2D	2	Root Cause Analysis of Systems Failure: A Tutorial
RCFA3D	3	Root Cause Failure Analysis and Experiment Design Workshop
DPI	2	Delivery Performance Improvement
QUALMGT	3	Quality Management
COSTRED	2	Cost Reduction: Opportunities and Strategies
MANULEAD	3-4	Manufacturing Leadership Workshop
OFFSHORE	2	Offshore Supplier Management and Performance Assurance
		Systems Engineering
SYSENGM	4	Systems Engineering: Methodology, Best Practices, and Management
SYSENG	2	Systems Engineering: An Intermediate Tutorial and Workshop
OUTOFBOX	2	Thinking Out of the Box: A Systems Engineering Imperative





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<u>Reliability Engineering: Root Cause Failure Analysis,</u> <u>Failure Modes and Effects Analysis</u>

Course ID	Days	Course Title
		Statistics and Experiment Design
INDSTAT	2	Industrial Statistics: A Tutorial
DOE1	1	Design of Experiments: An overview
DOE2	2+	Design of Experiments: A Comprehensive Course and Workshop
R	eliabili	ty Engineering: Root Cause Analysis, Failure Modes and Effects Analysis
RELENG	3	Reliability Engineering Workshop
FMEA	2	Failure Modes and Effects Analysis: A Comprehensive Workshop
RCFA2D	2	Root Cause Analysis of Systems Failure: A Tutorial
RCFA3D	3	Root Cause Failure Analysis and Experiment Design Workshop
RCFA- ME	2-4	Root Cause Analysis of Component Failure: Understanding Human and Engineering Factors for Improved Product Performance
RCFA4D	4	Root Cause Analysis of Systems Failure: A Comprehensive Course
RCFA5	5	Root Cause Failure Analysis: Workshop and Simulation
RCFA	5	Root Cause Analysis of Systems Failure: A Comprehensive Five Day Workshop

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Software Engineering

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SWENG2	3	Software Engineering: An Advanced Tutorial
PROJMGT2	2	Project Management Workshop
PROJMGT4	4	Project and Team Management Workshop
WREQ	3	Writing Requirements with Structured Use Case Descriptions
SWCM	2	Software Configuration Management
SWT	2	Effective Software Testing
SWPE	2	Software Project Estimation
COSTRED	2	Cost Reduction: Opportunities and Strategies
SWPM	2	Software Project Management
SWQA	1	Software Quality Assurance





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Engineering and Technical Management and Leadership

Course ID	Days	Course Title
		Technical Project Management
MANULEAD	3-4	Manufacturing Leadership Workshop
OFFSHORE	2	Offshore Supplier Management and Performance Assurance
DOS-DONTS	1	Succeeding at Technical Management: Do's and Don'ts for the Technical Manager
PFMEXEC	2	Project Portfolio Management: What Every Executive Must Know
PFMEXEC3	3	Executive's Guide to Project Portfolio Management
PROJMGT1	1	Overview of Project Management
PROJMGT2	2	Project Management Workshop
PROJMGT3	3	Effective Project Management
PROJMGT4	4	Project and Team Management Workshop
PROJMGT5	5	Project Management: A Comprehensive Course and Simulation
PMPPREP5	5	Preparation for the PMP® / CAPM® Certification Examination
ADVPM	4	Advanced Project Management for the Experienced Practitioner
VLEAD	1-3	Leading Virtual (Global) Teams
SWPM	2	Software Project Management
]	Performance, Quality, Risk, and Cost Management
ECONENG	2	Engineering Economics: A Comprehensive Workshop
DPI	2	Delivery Performance Improvement
QUALMGT	3	Quality Management
CONTROL	2	Controlling Change to Scope and Requirements
RISK	3	Controlling Project Risk: Managing Threats and Promoting Opportunities
PROJBUG	2	Building and Controlling Project Budgets
COSTRED	2	Cost Reduction: Opportunities and Strategies
		People Management and Leadership
PEOPLE	3-4	People in Projects: Foundation for Project Success
CONFRES	1	Conflict Resolution for Project Managers Table of
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LEAD3	3	Advanced Leadership Workshop: The Vision, the Strategy, and cution



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LEADUP	1-2	Creating a Leading Up Culture
MANAGUP	1-2	Managing and Leading upward to Achieve Your Organization's Mission
STRAT1	1-2	Strategic Analysis and Planning Workshop





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<u>Technical Communications: Creative Thinking, Writing,</u> <u>Proposals, Presentations, Meetings, Consulting</u>

Course ID	Days	Course Title
CREATE	1	Think Smart: Unleash Your Hidden Creativity!
THINKSOLVE	2	Problem Solving and Critical Thinking: Making Sound Decisions in a Fast-Paced World
TECHWRITE	2	Hands-on Technical Writing
TWRT	2	Technical Writing: Proposals, Reports, E-mails, and SWOT Analyses
WREQ	3	Writing Requirements with Structured Use Case Descriptions
PROPWRITE	2	Writing Successful Proposals
PRESENT	2	Presentations That Inform, Motivate, and Sell!
BIZCOM	1	Business Communication: In-Person, Written, Verbal, and Internet
VCOLLAB	1-3	Collaborating Effectively on a Virtual Team
ECOM	1	Effective Office Communications: E-mail, Voice-mail, Video-Mail, Skype, Twitter, and More
MEETINGS	1	Effective Meetings: For Leaders and Participants
SERVICE	2	Internal Consulting and Customer Service





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Telecommunications





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Network Engineering: Design, Operations, Management

Course ID	Days	Course Title
SW-ROUTE	5	Introduction to Switching and Routing
MPBN	5	Mobile Packet Backbone Network (MPBN)
NETWORK	5	CompTIA Network + Certification Training
NETSEC	3-4	Principles of Network Security: CompTIA Security+ and US DoD Directive 8570.1
IPSEC	2-3	IP Security v2 (IPSec v2) Architecture and Protocols
IPSECWS	2-3	IP Security v3 (IPsec v3) Workshop
SIPSEC	2	SIP Security: A Comprehensive Short Course
VOIPSEC	2	VoIP Security
WIFISEC	3	IEEE 802.11 (WiFi) Wireless LAN Security
TELETRAF	2-3	Traffic Engineering for Voice and Data Networks
SNMP- ESSENT	3	SNMP Essentials: A Fast-Track Tutorial
SNMPV3	1	SNMPv3: Secure SNMP
SNMP-AGENT	1	SNMP: Agent Development
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design

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IPV6-MW2-4IP Workshop: IPv4, IPv6, and MigrationIPSYS2-3IP-Based Systems: TCP/IP and Mobile IPIPV62-3Internetworking with TCP/IP Version 6IPSEC2-3IP Security v2 (IPSec v2) Architecture and ProtocolsTableIPSECWS2-3IP Security v3 (IPsec v3) WorkshopConter	IP5D	5	IP Networks: A Comprehensive 5-Day Workshop
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IPV6 2-3 Internetworking with TCP/IP Version 6 IPSEC 2-3 IP Security v2 (IPSec v2) Architecture and Protocols Table Content IPSECWS 2-3 IP Security v3 (IPsec v3) Workshop Content	IPV6-MW	2-4	IP Workshop: IPv4, IPv6, and Migration
IPSEC 2-3 IP Security v2 (IPSec v2) Architecture and Protocols Table IPSECWS 2-3 IP Security v3 (IPsec v3) Workshop Content	IPSYS	2-3	IP-Based Systems: TCP/IP and Mobile IP
IPSECWS 2-3 IP Security v3 (IPsec v3) Workshop Content	IPV6	2-3	Internetworking with TCP/IP Version 6
IPSECWS 2-3 IP Security v3 (IPsec v3) Workshop Content	IPSEC	2-3	IP Security v2 (IPSec v2) Architecture and Protocols Table of
	IPSECWS	2-3	
Mohe F. All Intensive Futorial	MOIP	2	Mobile IP: An Intensive Tutorial
IPGEOLOC 2-3 IP, Location and Geo-Location Technologies for Law Enforcement, Intelligence, and Public Safety	IPGEOLOC	2-3	
BGP 1 BGP: An Intensive Tutorial	BGP	1	BGP: An Intensive Tutorial



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	MPL	S: Technology, QoS, Traffic Engineering, Applications
MPLS1D	1	MPLS: A Short Tutorial
MPLS	2-3	MPLS: Integrated Routing with End-to-End QoS for the Next Generation Networks
MPLSEA	2-3	MPLS: Emerging Applications
MPLS10	2-4	MPLS: Technology, Engineering, Applications, and QoS
	•	Multi-media: Convergence, EoIP, VoIP, SIP, IMS
CONVERGENCE	5	CompTIA Convergence +: Broadband VoIP Networking
SIP	1	SIP Protocol, Architecture, and Design
SIPSEC	2	SIP Security: A Comprehensive Short Course
VOIP	2-3	VoIP: Protocols, Design, and Implementation
VOIPSEC	2	VoIP Security
VOIP-EXEC	1	State-of-the-art of VoIP Technology for Professionals, Managers, and Executives
EOIP	5	Everything over IP (EoIP): Data, Voice, Video, Signaling and Telemetry over IPv4/IPv6 Networks
MULTIMEDIA	2	Multimedia Applications: IMS, SIP, and VoIP
IMS	2	IMS: The Technology, Applications, and Challenges
LTE-IMS	4	LTE and IMS: Technologies and How They Interwork
3G-IMS-STRAT	2	3G, IMS, and the Carrier Business Economics
SNMP: Basics, Security (SNMPv3), Agent Development		
SNMP-ESSENT	3	SNMP Essentials: A Fast-Track Tutorial
SNMPV3	1	SNMPv3: Secure SNMP
SNMP-AGENT	1	SNMP: Agent Development





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Mobile Backhaul: Technology, Business/Marketplace Issues, Architecture/Implementation, Standards/Protocols, Security, Application Case Studies

Course ID	Days	Course Title
BHAUL-E2E	1	Mobile Backhaul End-to-End TM
BHAUL- BRIEF	1	Mobile Backhaul Business and Technology Briefing TM
BHAUL-MKT	1	Mobile Backhaul Market Briefing
BHAUL-APP	1+	Mobile Backhaul Application Case Studies
BHAUL-AI	2-3	Mobile Backhaul Architecture and Implementation
BHAUL- STND	2-3	Mobile Backhaul Standards and Protocols
BHAUL-SEC	1	Mobile Backhaul Security





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IN: CAMEL, IMS, SIP, SS7/C7; Intelligent Networks and Value-Added Services

Course ID	Days	Course Title
		Intelligent Networks (IN) and Value-Added Services
CAMEL	3	CAMEL for Intelligent Networks: Value-Added Services for GSM, GPRS, <u>UMTS</u>
CAMEL-ADV	3	CAMEL: An Advanced Tutorial
IMS	2	IMS: The Technology, Applications, and Challenges
MULTIMEDIA	2	Multimedia Applications: IMS, SIP, and VoIP
SIP	1	SIP Protocol, Architecture, and Design
SS7C7-O	2	SS7/C7: A Technology Overview
SS7-ARCH	4-5	SS7/C7 Architecture and System Operation in Depth
SS7C7	3	SS7/C7 Protocols and System Operation
		Related Courses
3G-IMS- STRAT	2	3G, IMS, and the Carrier Business Economics
EOIP	5	Everything over IP (EoIP): Data, Voice, Video, Signaling and Telemetry over IPv4/IPv6 Networks
FUTURE	1-2	Future of Wireless: WiMAX, LTE, OFDM/MIMO
MOBILETV	2	Mobile TV: Technology and Market Trends
SIPSEC	2	SIP Security: A Comprehensive Short Course
VOIP	2-3	VoIP: Protocols, Design, and Implementation
VOIP-EXEC	1	State-of-the-art of VoIP Technology for Professionals, Managers, and Executives
VOIPSEC	2	VoIP Security
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design





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<u>Cloud Computing End-to-End: Business Issues, Market,</u> <u>Standards, Protocols, Architectures, and Security</u>

Course ID	Days	Course Title
CLOUD-BRIEF	1	Cloud Computing Business and Technology Briefing TM
CLOUD-MKT	1	Cloud Computing Market Briefing
CLOUD-APP	1	Cloud Computing Application Case Studies
CLOUD-AI	3-4	Cloud Computing Architecture and Implementation
CLOUD-STND	3-5	Cloud Computing Standards and Protocols
CLOUD-SEC	3-5	Cloud Computing Security
CLOUD-E2E	1	Cloud Computing End-to-End TM
CLOUD1	2	Understanding, Designing, and Implementing Cloud Computing





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Optical Networks: SONET/SDH, DWDM, CWDM

Course ID	Days	Course Title
LIGHTMST	3-5	LightMASTER Certified Fiber Optic Training
OPTNET	2-3	Optical Networking for Professionals, Managers, and Executives
SONET-SDH	2	SONET/SDH: Principles and Design
DWDM101	2	DWDM: An Introductory Tutorial
DWDM	2-3	DWDM Principles and Design: An Advanced Tutorial





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DoD, DHS, Security, Public Safety, Law Enforcement: Wireless/WiFi, Cyber Security and Warfare, IP/SIP/VoIP and Network Security, Geo-location, 911, Unified Communications, Emerging Technologies, CALEA

Course ID	Days	Course Title
		General
CALEA	2-3	Communications Assistance to Law Enforcement Act (CALEA): Technologies and Compliance for TDM and Packet Voice Services
EMERGE-LAW	2-3	Emerging Communications and Technologies in Public Safety, Law Enforcement, and Homeland Security
SECURITY- EXEC	2-3	Security, Privacy and Information Integrity for Managers Executives, and Policy Makers
		Cyber Security and Cyber Warfare
CYBERSEC	2	Cyber Security and Cyber Warfare
CYBERPOL	2	Cyber Space and Cyber Conflict Policy
		RF and Wireless Networks
LTE-PUBSAFE	3	Emergency, Priority Access, and Public Safety Support in LTE
GSMSEC	5	GSM Architecture, Operation, and Security
CDMASEC	5	WCDMA & CDMA2000 Architecture, Operation, and Security
RF-PUBSAFE	5	<u>RF Propagation, Analysis, and Design for Land Mobile and Public Safety Radio</u> <u>Systems</u>
HF	1-2	HF Communications: An Overview
RFPROP	2-3	RF Propagation, Fading, and Link Budget Analysis Table of
ANTENNA	1-3	Antennas: Characteristics, Deployment, and the Future
MICROWAVE2	2	Microwave and Fixed Line-of-Sight Link Design Principles
MICROWAVE4	4	Microwave and Fixed Line-of-Sight Link Design Workshop
RFSAFETY	1/2-1	RF Safety for the Wireless Industry (including Real-Estate) Professionals
WIFISEC	3	IEEE 802.11 (WiFi) Wireless LAN Security
WIRELESS-TI	4-5	Architecture & Operation of Wireless Networks for Technical Investigators: From Their Analog Origins to the Emerging 3G Technologies
ALL-WIRELESS	5	Everything Wireless: RF/Cellular Basics, WiFi, Bluetooth, WiMAX, CDMA, GSM/GPRS/EDGE, UMTS/HSPA, and LTE



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5GSEC	1	5G Wireless: Federal and Defense Applications and Implications
WNETSEC	5	Wireless Communications, Networking, and Security for US Federal
		Government Personnel
		Data Networks
IPSEC	2-3	IP Security v2 (IPSec v2) Architecture and Protocols
IPSECWS	2-3	IP Security v3 (IPsec v3) Workshop
NETSEC	3-4	Principles of Network Security: CompTIA Security+ and US DoD Directive 8570.1
SIPSEC	2	SIP Security: A Comprehensive Short Course
SIPWS	2-3	Session Initiation Protocol (SIP) Workshop
UNIFIED	2-3	Unified Communications in Public Safety, Law Enforcement, and Homeland Security
VOIPSEC	2	VoIP Security
	G	eo-location and Location-Based Services/Applications
POSLOC	3	Positioning and Location Workshop
ADVPL	2	Advanced Workshop on Positioning and Location
E911-3G4G	2	4G LTE & UMTS/HSPA Location Based Services to Support E911 Requirements
IPGEOLOC	2-3	IP, Location and Geo-Location Technologies for Law Enforcement, Intelligence, and Public Safety
		Courses for 911 Professionals
VOICE-911	2-3	Voice Communications and Technologies for 911 Call Takers, Supervisors, and Trainers
VOIP-911	2-3	VoIP for 911 Administrators, Managers, Directors, and Regulators
911-IP	2-3	911 for IP Professionals





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OSS/BSS: Solution Framework (Frameworx), Business Process Framework (eTOM), Information Framework (SID), Application Framework (TAM), and Related Areas

Course ID	Days	Course Title
FWX1	3-4	Introduction to Solution Framework (Frameworx) using Business Process Framework (eTOM), Information Framework (SID), and Application Framework (TAM)
FWX1D	1	Overview of the TMF-Solution Frameworks (a.k.a Frameworx) and the eTOM Business Process Framework
ETOM-SID	2	eTOM and SID Workshop
SID	1	Overview of the TeleManagement Information Framework a.k.a SID
2GTO4G	4-5	2G to 4G+: Technologies, Drivers, and Business Case
WIRELESS	5	Wireless Technologies: A Comprehensive Overview
EWT	5	Emerging Wireless Technologies
WIRELESS- BIZ	3-5	History, State-of-the-art, and Future of Wireless: Wireless Technology and Applications for Businessmen
PROJMGT5	5	Project Management: A Comprehensive Course and Simulation
SWPM	2	Software Project Management
WREQ	3	Writing Requirements with Structured Use Case Descriptions
ENGECON	3	Engineering Economics for Telecom and Media Engineers





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<u>Telecom for Non-engineers: SS7, NextGen, MPLS, IMS, VoIP, IPTV, Cyber Security/Warfare, Cloud Computing, Mobile Backhaul, RF, HF, SATCOM, Wireless (General), 3G, 4G (LTE, WiMAX), 5G, WiFi, Bluetooth, and More</u>

Course ID	Days	Course Title	
Telecon	ımunica	tions: Switching/Routing, Ethernet, Optical Networks, SS7, M	Iore
SW-ROUTE	5	Introduction to Switching and Routing	
ETHER1	2	Ethernet OAM (Operations, Administration and Management/M	aintenance)
OPTNET	2-3	Optical Networking for Professionals, Managers, and Executives	<u>S</u>
SS7C7-O	2	SS7/C7: A Technology Overview	
FWX1D	1	Overview of Frameworx and eTOM	
SECURITY- EXEC	2-3	Security, Privacy and Information Integrity for Managers Executive Policy Makers	tives, and
ENGECON	3	Engineering Economics for Telecom and Media Engineers	
	Nex	tGen (NGN), MPLS, Multi-Media (IMS, VoIP), IPTV	
S-NGN	0.2	NextGen Networks (NGN): 1-hr Mini-course for All Audiences hr)	<u>(S-NGN, 1</u>
N-NGN	0.5	NextGen Networks (NGN) Explained: For All Audiences (N-NG	<u>GN, half day)</u>
MPLS1D	1	MPLS: A Short Tutorial	
VOIP-EXEC	1	State-of-the-art of VoIP Technology for Professionals, Managers Executives	s, and
IMS	2	IMS: The Technology, Applications, and Challenges	
3G-IMS- STRAT	2	3G, IMS, and the Carrier Business Economics	
N-IPTV	0.5	IPTV: For All Audiences (N-IPTV, half day)	
		Cloud Computing	
CLOUD1	2	Understanding, Designing, and Implementing Cloud Computing	
CLOUD-BRIEF	1	Cloud Computing Business and Technology Briefing TM	
CLOUD-MKT	1	Cloud Computing Market Briefing	Table of
CLOUD-APP	1	Cloud Computing Application Case Studies	Content
		Cyber Security and Warfare	



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CYBERSEC	2	Cyber Security and Cyber Warfare	
CYBERPOL	2	Cyber Space and Cyber Conflict Policy	
Mobile Wireless	Backh	aul End-to-End: Technologies, Business Issues, Marketplace, Architecture/	
Imp	lement	ation, Standards/Protocols, Security, Application Case Studies	
BHAUL-MKT	1	Mobile Backhaul Market Briefing	
BHAUL-AI	2-3	Mobile Backhaul Architecture and Implementation	
BHAUL-STND	2-3	Mobile Backhaul Standards and Protocols	
BHAUL-APP	1+	Mobile Backhaul Application Case Studies	
BHAUL-E2E	1	Mobile Backhaul End-to-End TM	
BHAUL-BRIEF	1	Mobile Backhaul Business and Technology Briefing [™]	
BHAUL-SEC	1	Mobile Backhaul Security	
Wir	eless: N	AVNO's, Handsets, Wireless Intro., Technology Surveys, More	
MVNO	1/2	Mobile Data MVNO	
HANDSETS	2	Understanding the Mobile Handset Industry: Technology Landscape, Market	
		Dynamics, and Trends	
WIRELESS-TL	3	Broadband Wireless: Evolution, Technology, Infrastructure, and Regulation	
WIRELESS-	4	State-of-the-art of Wireless Communications for Non-engineering	
EXEC		Professionals, Managers, and Executives	
EWT	5	Emerging Wireless Technologies	
WIRELESS- BIZ	3-5	History, State-of-the-art, and Future of Wireless: Wireless Technology and Applications for Businessmen	
2GTO4G	4-5	2G to 4G+: Technologies, Drivers, and Business Case	
FUTURE	1-2	Future of Wireless: WiMAX, LTE, OFDM/MIMO	
ALL- WIRELESS	5	Everything Wireless: RF/Cellular Basics, WiFi, Bluetooth, WiMAX, CDMA, GSM/GPRS/EDGE, UMTS/HSPA, and LTE	
All-IN-ONE	5	Wireless All-in-One: RF Propagation, Cellular Principles, Personal Radio Services, WiFi, WiMAX, CDMA, and GSM	
		Wireless: 3G, 4G (LTE, WiMAX), 5G, Mobile TV	
3G-IMS- STRAT	2	3G, IMS, and the Carrier Business Economics	
W-4G	0.5	4G Technologies & Services: For All Audiences (W-4G, half day)	
S-LTE	0.2	LTE: 1-hr Mini-course for All Audiences (S-LTE, 1hr)	
W-LTE1	0.5	LTE Explained: For All Audiences (W-LTE1, half day) Table of	
LTE-BIZ	2	LTE: Technology, Business, and Competitive Landscape Content	



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LTE-EXEC	1	LTE for Business Professionals
S-WMX	0.2	WiMAX: 1-hr Mini-course for All Audiences (S-WMX, 1 hr)
W-WMX1	0.5	WiMAX Explained: For All Audiences (W-WMX1, half day)
WIMAX-BIZ	2	WiMAX: Technology, Business, and Competitive Landscape
5GTUTE	1	5G Wireless: A Fast-Paced Tutorial
5GCOMP	4	5G Wireless: State-of-the-art of Research, Policy, and Standards
MOBILETV	2	Mobile TV: Technology and Market Trends
		Short-range Wireless: WiFi, Bluetooth
SHORTRANGE	3	Short-Range Wireless Survey: WiFi, WiMedia, Bluetooth, and ZigBee
WIFI	1	State-of-the-art of WiFi for Non-engineering Professionals, Managers, and
		Executives
RF and SATCOM	1	
RF-TECH	4	RF for Technicians: A Fast-Track Workshop
HF	1-2	HF Communications: An Overview
RFSAFETY	1/2-1	RF Safety for the Wireless Industry (including Real-Estate) Professionals
RFSAFETY- EXEC	1	<u>RF Safety for Corporate Management and Environmental Health</u> <u>Professionals</u>
SATCOM- EXEC	1	State-of-the-art of Satellite Communications for Non-engineering Professionals, Managers, and Executives

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2G to 5G Wireless





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5G and Beyond: Cognitive Radio, Dynamic Spectrum Access (DSA) ...

Course ID	Days	Course Title
		5G/5G+ Technologies
5GCOMP	4	5G Wireless: State-of-the-art of Research, Policy, and Standards
5GTUTE	1	5G Wireless: A Fast-Paced Tutorial
5GSEC	1	5G Wireless: Federal and Defense Applications and Implications
		4G Foundations
W-4G	0.5	4G Technologies & Services: For All Audiences (W-4G, half day)
W-ENB	0.5	4G Enablers - OFDM and MIMO: For Technical Audiences (W-ENB, half-day)
ОМ	3	Principles of OFDM and MIMO
W-LTE2	1	LTE Technology: For Technical Audiences (W-LTE2, 2 half days)
W-WMX2	1	WiMAX Technology: For Technical Audiences (W-WMX2, 2 half days)
LTE-CT	3	LTE: A Comprehensive Tutorial
LTE-C3DC	3	LTE: A Comprehensive Three Day Course
WIMAX- C3DC	3	WIMAX: A Comprehensive Three Day Course





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4G: LTE, WiMAX, MIMO, OFDM

Course ID	Days	Course Title
		rning Courses on 4G, LTE, WiMAX, and OFDM/MIMO
W-4G	0.5	4G Technologies & Services: For All Audiences (W-4G, half day)
W-ENB	0.5	4G Enablers - OFDM and MIMO: For Technical Audiences (W-ENB, half day)
S-LTE	0.2	LTE: 1-hr Mini-course for All Audiences (S-LTE, 1hr)
W-LTE1	0.5	LTE Explained: For All Audiences (W-LTE1, half day)
W-LTE2	1	LTE Technology: For Technical Audiences (W-LTE2, 2 half days)
S-WMX	0.2	WiMAX: 1-hr Mini-course for All Audiences (S-WMX, 1 hr)
W-WMX1	0.5	WiMAX Explained: For All Audiences (W-WMX1, half day)
W-WMX2	1	WiMAX Technology: For Technical Audiences (W-WMX2, 2 half days)
		OFDM and MIMO
ОМ	3	Principles of OFDM and MIMO
LTE: Courses	for Rad	io Planners, Hardware/Software Developers, Defense/Homeland Security Applications, and Other Audiences
LTE-C3DC	3	LTE: A Comprehensive Three Day Course
LTE-CT	3	LTE: A Comprehensive Tutorial
E911-3G4G	2	4G LTE & UMTS/HSPA Location Based Services to Support E911
		Requirements
LTE-NPC	3-5	LTE Network Planning Course
LTE-FUND	3	LTE/SAE Fundamentals
LTE-RADIO	2	LTE Radio Access
LTEAI4D	4-5	LTE Air Interface: A Comprehensive Course
LTE-CORE	5	LTE Core Network
LTE-SAE-NGN	3	LTE/SAE Next Generation Network Transport
LTE-IMS	4	LTE and IMS: Technologies and How They Interwork
LTEWK	5	LTE: RF Network Design Workshop
LTEHSW	5-10	LTE Air Interface: An Advanced Course for Hardware/Software Developers
LTE-PUBSAFE	3	Emergency, Priority Access, and Public Safety Support in LTE
		LTE: A Comprehensive Technology Curriculum
LTE-TECH	3	LTE/SAE: A Technology Overview Table of
LTEAI	3	LTE Air Interface Techniques Content



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LTESIG	3	LTE Signaling and Functionality
LTEPLAN	4	LTE Planning Considerations
LTE-ADV	4	LTE Advanced System Techniques
		WiMAX Courses
WIMAX-C3DC	3	WIMAX: A Comprehensive Three Day Course
WIMAX-2DT	2	WIMAX: A Two-Day Tutorial
WIMAX-TECH	3	WiMAX / Mobile WiMAX: An Advanced Tutorial Including 802.16e
WIMAX5D	5	WiMAX/Mobile WiMAX Radio Planning & Optimization Workshop
TRAFFIC- WIMAX	3	Traffic and Capacity Engineering for WIMAX Networks
Less Technical	Course	s: 4G LTE and WiMAX for Planning/Strategy, Marketing/Sales, Telecom Policy/Regulation, Etc.
LTE-EXEC	1	LTE for Business Professionals
LTE-BIZ	2	LTE: Technology, Business, and Competitive Landscape
WIMAX-BIZ	2	WiMAX: Technology, Business, and Competitive Landscape
2GTO4G	4-5	2G to 4G+: Technologies, Drivers, and Business Case
FUTURE	1-2	Future of Wireless: WiMAX, LTE, OFDM/MIMO
		Other Courses to Consider
ALL-WIRELESS	5	Everything Wireless: RF/Cellular Basics, WiFi, Bluetooth, WiMAX, CDMA, GSM/GPRS/EDGE, UMTS/HSPA, and LTE
All-IN-ONE	5	Wireless All-in-One: RF Propagation, Cellular Principles, Personal Radio Services, WiFi, WiMAX, CDMA, and GSM
HSDPA	2	HSDPA: Network Architecture, Operation, and Design
HSDPA-ADV	2	HSDPA: An Advanced Tutorial
HSUPA	2	HSUPA: Network Architecture, Operation, and Design
HSPAOPT	3	Optimizing HSPA (HSDPA and HSUPA) Networks
TRAFFICMM	2-4	Traffic Engineering of QoS-Aware Multimedia Networks: Access and Backbone
MPBN	5	Mobile Packet Backbone Network (MPBN)
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design
		Applications and Services
POSLOC	3	Positioning and Location Workshop
ADVPL	2	Advanced Workshop on Positioning and Location
E911-3G4G	2	4G LTE & UMTS/HSPA Location Based Services to Support E911



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		<u>Requirements</u>
CAMEL	3	CAMEL for Intelligent Networks: Value-Added Services for GSM, GPRS and UMTS
CAMEL-ADV	3	CAMEL: An Advanced Tutorial
IMS	2	IMS: The Technology, Applications, and Challenges
LTE-IMS	4	LTE and IMS: Technologies and How They Interwork
3G-IMS-STRAT	2	3G, IMS, and the Carrier Business Economics
MULTIMEDIA	2	Multimedia Applications: IMS, SIP, and VoIP
VOIP	2-3	VoIP: Protocols, Design, and Implementation
EOIP	5	Everything over IP (EoIP): Data, Voice, Video, Signaling and Telemetry over IPv4/IPv6 Networks
MOBILETV	2	Mobile TV: Technology and Market Trends





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<u>3G/WCDMA: UMTS-FDD, UMTS-TDD, HSDPA, HSUPA, LTE</u>

Course ID	Days	Course Title
		UMTS: UMTS-FDD and UMTS-TDD
3G5D	5	3G Systems: WCDMA/UMTS and CDMA2000
CDMASEC	5	WCDMA & CDMA2000 Architecture, Operation, and Security
UMTS-FDD	3	UMTS-FDD: Network Architecture, Operation, and Design
UMTS-FDD-DO	2	UMTS-FDD Network Design and Optimization
UMTS-TDD	2	UMTS-TDD: Network Architecture, Operation, and Design
UMTS-TDD-DO	2	UMTS-TDD Network Design and Optimization
WG-INTER	3	WCDMA-GSM Interoperability Tuning
E911-3G4G	2	<u>4G LTE & UMTS/HSPA Location Based Services to Support E911</u> <u>Requirements</u>
MPBN	5	Mobile Packet Backbone Network (MPBN)
		Beyond 3G: HSDPA, HSUPA, LTE (4G)
HSDPA	2	HSDPA: Network Architecture, Operation, and Design
WHSPA-DIM	5	WCDMA/HSPA Planning and Dimensioning
HSDPA-ADV	2	HSDPA: An Advanced Tutorial
HSUPA	2	HSUPA: Network Architecture, Operation, and Design
HSPAOPT	3	Optimizing HSPA (HSDPA and HSUPA) Networks
LTE4	4	LTE/4G: A Comprehensive Look at the Next Generation Mobile Networks
MPBN	5	Mobile Packet Backbone Network (MPBN)
LTE4G	2	LTE/4G: The Next Generation Mobile Networks
		Applications and Services
POSLOC	3	Positioning and Location Workshop
ADVPL	2	Advanced Workshop on Positioning and Location
CAMEL	3	CAMEL for Intelligent Networks: Value-Added Services for GSM, GPRS and UMTS
CAMEL-ADV	3	CAMEL: An Advanced Tutorial
IMS	2	IMS: The Technology, Applications, and Challenges
3G-IMS-STRAT	2	3G, IMS, and the Carrier Business Economics Table of
MULTIMEDIA	2	Multimedia Applications: IMS, SIP, and VoIP Content
VOIP	2-3	VoIP: Protocols, Design, and Implementation



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MOBILETV	2	Mobile TV: Technology and Market Trends
		Related RF
ALL- WIRELESS	5	Everything Wireless: RF/Cellular Basics, WiFi, Bluetooth, WiMAX, CDMA, GSM/GPRS/EDGE, UMTS/HSPA, and LTE
All-IN-ONE	5	Wireless All-in-One: RF Propagation, Cellular Principles, Personal Radio Services, WiFi, WiMAX, CDMA, and GSM
FUTURE	1-2	Future of Wireless: WiMAX, LTE, OFDM/MIMO
GSM-I	5	GSM: Network Architecture, Operation, and Design
CDMA	3	CDMA Technology and Its Evolution to cdma2000
RFOPT	3-5	RF Optim. Workshop: GSM/GPRS/EDGE, UMTS, cdmaOne, 1xRTT, EVDO
TRAFFIC	3	Traffic Engineering Models for Network Design
TRAFFIC3G	3	Traffic Engineering Models for 3G Network Design
TRAFFICMM	2-4	Traffic Engineering of QoS-Aware Multimedia Networks: Access and Backbone
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design

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GSM, GPRS, EDGE (EGPRS)

Course ID	Days	Course Title
		GSM: Basic to Advanced
GSM-B	1	GSM: A Technology Overview
GSM-I	5	GSM: Network Architecture, Operation, and Design
GSMSEC	5	GSM Architecture, Operation, and Security
GSM-A	2	GSM: Optimization and Advanced Features
GSMPLUS	3	GSM, GPRS, and EDGE: An Intensive Tutorial
MPBN	5	Mobile Packet Backbone Network (MPBN)
		2.5G/2.75G: GPRS and EDGE (EGPRS)
GPRS	3	GPRS: Network Architecture, Operation, and Design
EDGE	2	EDGE: Network Architecture, Operation, and Design
EGPRS	2	EGPRS Engineering: Designing and Optimizing a GPRS/EGPRS Network
EGPRS-OPT	5	GSM/GPRS/EDGE RAN Optimization: Features and Parameters
WG-INTER	3	WCDMA-GSM Interoperability Tuning
MPBN	5	Mobile Packet Backbone Network (MPBN)
		Applications and Services
POSLOC	3	Positioning and Location Workshop
ADVPL	2	Advanced Workshop on Positioning and Location
CAMEL	3	CAMEL for Intelligent Networks: Value-Added Services for GSM, GPRS, UMTS
CAMEL-ADV	3	CAMEL: An Advanced Tutorial
IMS	2	IMS: The Technology, Applications, and Challenges
3G-IMS-STRAT	2	3G, IMS, and the Carrier Business Economics
MULTIMEDIA	2	Multimedia Applications: IMS, SIP, and VoIP
VOIP	2-3	VoIP: Protocols, Design, and Implementation Table of
MOBILETV	2	Mobile TV: Technology and Market Trends Content
		Related RF
ALL- WIRELESS	5	Everything Wireless: RF/Cellular Basics, WiFi, Bluetooth, WiMAX, CDMA, GSM/GPRS/EDGE, UMTS/HSPA, and LTE
All-IN-ONE	5	All Wireless: RF Propagation, Cellular Principles, WiFi, WiMAX, CDMA, GSM
FUTURE	1-2	Future of Wireless: WiMAX, LTE, OFDM/MIMO



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RFOPT	3-5	RF Optimization Workshop: GSM/GPRS/ EDGE, UMTS, IS95, 1xRTT, EVDO
TRAFFIC	3	Traffic Engineering Models for Network Design
TRAFFIC3G	3	Traffic Engineering Models for 3G Network Design
TRAFFICMM	2-4	Traffic Engineering of QoS-Aware Multimedia Networks: Access and Backbone
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design





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<u>CDMA: DSSS, CDMA, cdmaOne (IS95), cdma2000 (1xRTT, EVDO, UMB, EVDV)</u>

Course ID	Days	Course Title
		CDMA Basics, cdmaOne, and cdma2000 Overview
3G3D	3	3G Systems: WCDMA/UMTS and CDMA2000 Overview
CDMA	3	CDMA Technology and Its Evolution to cdma2000
IS95	2	cdmaOne/IS95: Network Architecture, Operation, and Design
		cdma2000 in Depth
3G5D	5	3G Systems: WCDMA/UMTS and CDMA2000
CDMASEC	5	WCDMA & CDMA2000 Architecture, Operation, and Security
1XRTT	2	1xRTT: Network Architecture, Operation, and Design
EVDO	3	1xEVDO: Network Architecture, Operation, and Design
EVDV	3	1xEVDV: Network Architecture, Operation, and Design
		Applications and Services
POSLOC	3	Positioning and Location Workshop
ADVPL	2	Advanced Workshop on Positioning and Location
MULTIMEDIA	2	Multimedia Applications: IMS, SIP, and VoIP
VOIP	2-3	VoIP: Protocols, Design, and Implementation
MOBILETV	2	Mobile TV: Technology and Market Trends Table of
		Related RF Content
WIRELESSNET	3-4	Wireless Network Structure, Operation, and Technologies
ALL-WIRELESS	5	Everything Wireless: RF and Cellular Basics, WiFi, Bluetooth, WiMAX, CDMA, GSM/GPRS/EDGE, UMTS/HSPA, LTE
All-IN-ONE	5	Wireless All-in-One: RF Propagation, Cellular Principles, Personal Radio Services, WiFi, WiMAX, CDMA, and GSM
FUTURE	1-2	Future of Wireless: WiMAX, LTE, OFDM/MIMO
RFPROP	2-3	RF Propagation, Fading, and Link Budget Analysis
RFOPT	3-5	RF Systems Optimization: GSM, GPRS, EDGE, UMTS, cdmaOne, 1xRTT, EVDO
TRAFFIC	3	Traffic Engineering Models for Network Design
TRAFFIC3G	3	Traffic Engineering Models for 3G Network Design
TRAFFICMM	2-4	Traffic Engineering of QoS-Aware Multimedia Networks: Access and Backbone
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design



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Trunked Radio: iDEN™ and TETRA

Course ID	Days	Course Title
		iDEN™ and TETRA Courses
IDEN-O	1	iDENTM: A Technology Overview
IDEN	4-5	iDENTM: Network Architecture, Operation, Design, and Optimization
TETRA	3	TETRA: Network Architecture, Operation, and Design
Related Courses		
RFOPT	3-5	RF Systems Optimization Workshop: GSM, GPRS, EDGE, UMTS, cdmaOne, 1xRTT, EVDO
TRAFFIC	3	Traffic Engineering Models for Network Design
TRAFFICMM	2-4	Traffic Engineering of QoS-Aware Multimedia Networks: Access and Backbone
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design

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Overview, Comparison, Evaluation of Wireless Technologies

Course ID	Days	Course Title
3G3D	3	3G Systems: WCDMA/UMTS and CDMA2000 Overview
3G5D	5	3G Systems: WCDMA/UMTS and CDMA2000
GSMPLUS	3	GSM, GPRS, and EDGE: An Intensive Tutorial
2GTO4G	4-5	2G to 4G+: Technologies, Drivers, and Business Case
RF4D	4	Radio Systems Analysis and Design Workshop
3G-BEYOND	2-5	3G and Beyond: Advanced Wireless Technologies
3G-IMS-STRAT	2	3G, IMS, and the Carrier Business Economics
MULTIMEDIA	2	Multimedia Applications: IMS, SIP, and VoIP
CDMA	3	CDMA Technology and Its Evolution to cdma2000
FUTURE	1-2	Future of Wireless: WiMAX, LTE, OFDM/MIMO
WIRELESS-TL	3	Broadband Wireless: Evolution, Technology, Infrastructure, and Regulation
WIRELESSEXEC	4	State-of-the-art of Wireless for Non-engineers, Managers, and Executives
COMPARISON	2-4	Wireless Technologies: A Comparative Study
ALL-WIRELESS	5	Everything Wireless: RF/Cellular Basics, WiFi, Bluetooth, WiMAX, CDMA, GSM/GPRS/EDGE, UMTS/HSPA, and LTE
All-IN-ONE	5	Wireless All-in-One: RF Propagation, Cellular Principles, Personal Radio Services, WiFi, WiMAX, CDMA, and GSM
LTE4G	2	LTE/4G: The Next Generation Mobile Networks
SHORTRANGE	3	Short-Range Wireless Survey: WiFi, WiMedia, Bluetooth, and ZigBee
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design

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<u>Cell Planning and Deployment: Antennas, RF Propagation,</u> <u>Wireless Network Basics, RF Planning/Optimization,</u> <u>Traffic/Capacity, Site Acquisition, RF Safety</u>

Course ID	Days	Course Title
		IEEE WCET Oriented Courses
WCET1	4	Review of Select Topics Included in IEEE WCET Exam: RF Propagation, Analysis, and Design
WCET2	3	Review of Select Topics Included in IEEE WCET Exam: Wireless Access, Network Architecture, Management, Security, Facilities, and More
RF Safety f	or Engi	neers, Technicians, Real-Estate Personnel, and Safety Policy Makers
RFSAFETY	1/2-1	RF Safety for the Wireless Industry (including Real-Estate) Professionals
RFSAFETYEXEC	1	RF Safety for Corporate Management and Environmental Health Professionals
Wireless	s Systen	ns Basics: Architecture, RF Propagation, Antennas, Link Budgets
WIRELESSNET	3-4	Wireless Network Structure, Operation, and Technologies
RF4D	4	Radio Systems Analysis and Design Workshop
RFPROP	2-3	RF Propagation, Fading, and Link Budget Analysis
ANTENNA	1-3	Antennas: Characteristics, Deployment, and the Future
	Cell P	lanning and Optimization Including Traffic Engineering
CELLPLAN	3	Cell Planning and Site Development
TRAFFIC	3	Traffic Engineering Models for Network Design
TRAFFIC3G	3	Traffic Engineering Models for 3G Network Design Table of
TRAFFIC- WIMAX	3	Traffic and Capacity Engineering for WIMAX Networks
TRAFFICMM	2-4	Traffic Engineering of QoS-Aware Multimedia Networks: Access and Backbone
RFOPT	3-5	RF Systems Optimization Workshop: GSM, GPRS, EDGE, UMTS, cdmaOne, 1xRTT, EVDO
		Wireless Technologies
3G-BEYOND	2-5	3G and Beyond: Advanced Wireless Technologies
ALL-WIRELESS	5	Everything Wireless: RF/Cellular Basics, WiFi, Bluetooth, WiMAX, CDMA, GSM/GPRS/EDGE, UMTS/HSPA, and LTE
All-IN-ONE	5	Wireless All-in-One: RF Propagation, Cellular Principles, Personal Radio Services, WiFi, WiMAX, CDMA, and GSM



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COMPARISON	2-4	Wireless Technologies: A Comparative Study
		Site Development
WIRELESS- EXEC	4	State-of-the-art of Wireless Communications for Non-engineering Professionals, Managers, and Executives
SITEACQ	2-3	Site Acquisition: Where to Hang All Those Antennas!
SASKILLS	2	Critical Success Skills for Site Acquisition: Project Management, Negotiating, and Interpersonal Communications
PROJMGT2	2	Project Management Workshop
PROJMGT4	4	Project and Team Management Workshop





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RF, SATCOM, WiFi, Bluetooth





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Spectrum Engineering and Management: Planning, Monitoring, Licensing, Economics, Radio Measurement Equipment, Vector Network Analysis, RF/Wireless Technology Overview

Course ID	Days	Course Title
		Spectrum Engineering and Management
BROADREG	5	Broadband: Technologies, Policy, Regulation, NBP
SPECMGT	2-3	Spectrum Management: Planning, Monitoring, Licensing, and Economics
SPECMON	3-5	Spectrum Monitoring Workshop: Principles and Practice
RMEQUIP	2-3	Radio Measurements Equipment: Principles and Operation
VECTOR	3-5	Spectrum Monitoring: Principles of Vector Network Analysis, Procedures, and Key Results
		Courses That Provide the RF/Wireless Foundation
RFSYS	3	RF Systems: Principles, Design, and Deployment
RFPROP	2-3	RF Propagation, Fading, and Link Budget Analysis
WIRELESSNET	3-4	Wireless Network Structure, Operation, and Technologies
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design
		Courses That Overview RF/Wireless Technologies
ALL- WIRELESS	5	Everything Wireless: RF/Cellular Basics, WiFi, Bluetooth, WiMAX, CDMA, GSM/GPRS/EDGE, UMTS/HSPA, and LTE
All-IN-ONE	5	Wireless All-in-One: RF Propagation, Cellular Principles, Personal Radio Services, WiFi, WiMAX, CDMA, and GSM
LTE-C3DC	3	LTE: A Comprehensive Three Day Course
WIMAX-C3DC	3	WIMAX: A Comprehensive Three Day Course
3G5D	5	3G Systems: WCDMA/UMTS and CDMA2000
3G3D	3	3G Systems: WCDMA/UMTS and CDMA2000 Overview
GSMPLUS	3	GSM, GPRS, and EDGE: An Intensive Tutorial





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<u>RF, HF/VHF, Microwaves: RF Safety, RF Propagation/Fading,</u> <u>Antennas, RF Design/Deployment, Microwave Link Design</u>

Course ID	Days	Course Title
WCET1	4	
WCEII	7	Review of Select Topics for IEEE WCET Exam: RF Propagation, Analysis, Design
ANTENNA	1-3	Antennas: Characteristics, Deployment, and the Future
HF	1-2	HF Communications: An Overview
MICROWAVE2	2	Microwave and Fixed Line-of-Sight Link Design Principles
MICROWAVE4	4	Microwave and Fixed Line-of-Sight Link Design Workshop
MW8-10	8-10	Microwave Systems Engineering: A Comprehensive Course and Workshop
RFPROP	2-3	RF Propagation, Fading, and Link Budget Analysis
RFSAFETY	1/2-1	RF Safety for the Wireless Industry (including Real-Estate) Professionals
RFSYS	3	RF Systems: Principles, Design, and Deployment
RF4D	4	Radio Systems Analysis and Design Workshop
RF-TECH	4	RF for Technicians: A Fast-Track Workshop
RF-PUBSAFE	5	RF Propagation, Analysis, Design for Land Mobile and Public Safety Radio Systems
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design

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Satellite Communications: Commercial and Military

Course ID	Days	Course Title		
Satellite Communications				
SATCOM- EXEC	1	State-of-the-art of Satellite Communications for Non-engineering Professionals, Managers, and Executives		
SATCOM	2	Satellite Communications Principles and Design: A-to-Z of Modern Commercial and Military Satellite Systems		
SATSHOP	1	Satellite Network Design Workshop: VSAT Design, Installation, and Program Management		
SATCOM5D	5	Satellite Communications: Earth Station Design and Analysis		
Related RF				
ANTENNA	1-3	Antennas: Characteristics, Deployment, and the Future		
RFSYS	3	RF Systems: Principles, Design, and Deployment		
RF-TECH	4	RF for Technicians: A Fast-Track Workshop		
TRAFFIC	3	Traffic Engineering Models for Network Design		
TRAFFICMM	2-4	Traffic Engineering of QoS-Aware Multimedia Networks: Access and Backbone		
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design		

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Short-Range Wireless: WiFi, Bluetooth, ZigBee, More

Course ID	Days	Course Title		
Short-Range Technologies: General Courses				
SHORTRANGE	3	Short-Range Wireless Survey: WiFi, WiMedia, Bluetooth, and ZigBee		
SIGPROC	4	Signal Processing Concepts for Communications System Analysis and Design		
WiFi Architecture, Operation, Deployment, and Security Audit				
WIFI-NOS	4	Wi-Fi Local Area Network Operation and Security		
WIFI-TO	3	WIFI: A Tutorial for Those Familiar with Wireless/Cellular Networks		
WIFI	1	State-of-the-art of WiFi for Non-engineering Professionals, Managers,		
		Executives		
WIFI3	3	Wi-Fi Technology: Principles and Operation		
WIFINET	4	Metropolitan WiFi Network Design and Deployment		
WIFISEC	3	IEEE 802.11 (WiFi) Wireless LAN Security		
WIFI-TECH	2	Wi-Fi: Technology, Applications, Design, and Deployment		
Bluetooth Curriculum				
BLUETOOTH5	5	Bluetooth: An In-depth Five Day Course		
BLUETOOTH	3	Bluetooth: A Comprehensive Technology Overview		
BLUEOP	3	Bluetooth: Operation, Security, Applications, and Coexistence		





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