



الدورة التدريبية لتأهيل أخصائي شبكات الاتصالات



AGILE LEADERS
Training Center

30 Nov - 11 Dec 2026
القاهرة

الدورة التدريبية لتأهيل أخصائي شبكات الاتصالات

المرجع: 36250_79648 التاريخ: 30 Nov - 11 Dec 2026 الموقع: القاهرة الرسوم: 7000 Euro

Course Overview:

The Course is a comprehensive program designed to provide participants with an in-depth understanding of the telecommunications industry. This course covers a wide range of topics, including Broadband Converged IP -Telecom, Wireless Telecommunications, and Mobile Network Fundamentals. It is specifically tailored for non engineers, ensuring that all participants can grasp complex concepts such as Telecom Network Core and Edge, VoIP, and MPLS and Carrier Networks. The course also delves into advanced topics like 4G LTE, 5G Spectrum and Applications, Wi-Fi Security, and Satellite Communications. Participants will gain practical knowledge in OSI Layers and Protocol Stacks, LAN Fundamentals, VLANs and Ethernet, Optical Ethernet, and IP Networks and Routing. This course is ideal for those looking to enhance their expertise in Network Address Translation NAT, IPv6, and Service Level Agreements SLA in Telecom. With a focus on real-world applications and best practices, this course equips Telecommunications Specialists with the skills needed to excel in their roles.

Target Audience:

- Telecom Engineers
- Network Administrators
- IT Managers
- Technical Support Specialists
- Telecom Project Managers
- Network Analysts
- Business Development Managers

Targeted Organizational Departments:

- Information Technology IT
- Network Operations
- Technical Support
- Engineering
- Project Management Office

Targeted Industries:

- Telecommunications
- IT Services
- Networking and Infrastructure
- Mobile Communications
- Internet Service Providers ISPs
- Government and Public Sector
- Enterprise IT

Course Offerings:

By the end of this course, participants will be able to:

- Understand the fundamentals of Broadband Converged IP Telecom
- Grasp the basics of Wireless Telecommunications and Mobile Network Fundamentals
- Explain the principles of 4G LTE, 5G Spectrum, and Applications
- Ensure Wi-Fi Security and manage Satellite Communications
- Implement Voice over IP VoIP solutions and SIP Trunking
- Navigate the PSTN, LECs, CLECs, and IXCs
- Apply knowledge of OSI Layers and Protocol Stacks
- Design and manage LANs, VLANs, and Ethernet networks
- Utilize Optical Ethernet technologies
- Configure and troubleshoot IP Networks and Routing
- Perform Network Address Translation NAT and implement IPv6
- Manage MPLS and Carrier Networks
- Establish Service Level Agreements SLA in Telecom

Training Methodology:

The Telecommunications Network Specialist TNS Training Course employs a variety of training methodologies to ensure a comprehensive learning experience. These include interactive lectures, hands-on lab sessions, case studies, and group discussions. Participants will engage in real-world scenarios to apply their knowledge of Broadband Converged IP Telecom, Wireless Telecommunications, and Mobile Network Fundamentals. The course also includes role-playing exercises and simulations to enhance understanding of 4G LTE, 5G Spectrum, and Applications. Feedback sessions and assessments will be conducted regularly to gauge participants' progress and provide personalized guidance.

Course Toolbox:

- Comprehensive workbooks and manuals
- Online resources and reading materials
- Checklists and templates for telecom network design and management
- Interactive learning modules and simulations

Course Agenda:

Day 1: Introduction to Telecom Networks

- Overview of Telecommunications Network Specialist Topic 1: •
- Fundamentals of Broadband Converged IP Telecom Topic 2: •
- Telecom for Non-Engineers Topic 3: •
- Understanding Telecom Network Core and Edge Topic 4: •
- Basics of Wireless Telecommunications Topic 5: •
- Recap of key concepts and interactive Q&A Reflection & Review: •

Day 2: Mobile and Wireless Communications

- Mobile Network Fundamentals Topic 1: •
- Deep Dive into 4G LTE Topic 2: •
- Exploring 5G Spectrum and Applications Topic 3: •
- Wi-Fi Security Essentials Topic 4: •
- Satellite Communications Overview Topic 5: •
- Group discussion and feedback session Reflection & Review: •

Day 3: Voice and Protocols in Telecom

- Fundamentals of Voice over IP VoIP Topic 1: •
- VoIP: Soft Switches and SIP Servers Topic 2: •
- SIP Trunking Explained Topic 3: •
- The PSTN and Analog Voiceband Topic 4: •
- LECs, CLECs, and IXCs in Telecom Topic 5: •
- Case study analysis and review Reflection & Review: •

Day 4: Network Structures and Protocols

- OSI Layers and Protocol Stacks Topic 1: •
- LAN Fundamentals Topic 2: •
- VLANs and Ethernet Technologies Topic 3: •
- Optical Ethernet in Practice Topic 4: •
- IP Networks and Routing Fundamentals Topic 5: •
- Practical exercises and Q&A Reflection & Review: •

Day 5: Advanced Networking and Carrier Services

- Network Address Translation NAT Techniques Topic 1: •
- Implementing IPv6 Topic 2: •
- MPLS and Carrier Networks Topic 3: •
- Service Level Agreements SLA in Telecom Topic 4: •
- Carrier Network Basics Topic 5: •
- Knowledge check and discussion Reflection & Review: •

Day 6: Telecom Equipment and Services

- Overview of Telecom EquipmentTopic 1: •
- Telecom Services for Residential and BusinessTopic 2: •
- Wholesale Telecom ServicesTopic 3: •
- Carrier Connections and Interoperability Topic 4: •
- Trends in Telecom Equipment Topic 5: •
- Group activity and discussionReflection & Review: •

Day 7: Telecom Convergence and Broadband

- Understanding Telecom Convergence Topic 1: •
- Broadband Technologies and Applications Topic 2: •
- Impact of Convergence on Telecom ServicesTopic 3: •
- Future Trends in BroadbandTopic 4: •
- Case Studies in Telecom ConvergenceTopic 5: •
- Interactive session and feedback Reflection & Review: •

Day 8: Real-World Applications and Best Practices

- Best Practices in Telecom Network ManagementTopic 1: •
- Case Studies in Telecom Implementations Topic 2: •
- Practical Applications of Telecom Technologies Topic 3: •
- Troubleshooting Common Telecom IssuesTopic 4: •
- Future-Proofing Telecom NetworksTopic 5: •
- Problem-solving session and review Reflection & Review: •

Day 9: Regulatory and Compliance Issues in Telecom

- Overview of Telecom Regulations Topic 1: •
- Compliance Requirements for Telecom ProvidersTopic 2: •
- Impact of Regulations on Telecom Operations Topic 3: •
- Case Studies in Regulatory ComplianceTopic 4: •
- Preparing for Regulatory Changes Topic 5: •
- Regulatory review and discussionReflection & Review: •

Day 10: Developing Business Attitudes in Telecom

- Attitude and Mindset for Telecom ProfessionalsTopic 1: •
- Effective Communication and Leadership in TelecomTopic 2: •
- Strategic Thinking and Problem SolvingTopic 3: •
- Adapting to Technological Changes Topic 4: •
- Building a Customer-Centric Approach Topic 5: •
- Final review and course completion Reflection & Review: •

How This Course is Different from Other Telecommunications Network Specialist TNS Training Courses:

The Telecommunications Network Specialist TNS Training Course stands out from other similar courses by offering a holistic approach that combines foundational knowledge with advanced practical skills. It is specifically designed for non-engineers, making it accessible to a broader audience. The course covers the latest technologies and trends, including 4G LTE, 5G Spectrum, and Wi-Fi Security, ensuring that participants are well-versed in current industry standards. With a focus on real-world applications, the course includes hands-on lab sessions, interactive case studies, and role-playing exercises. Additionally, participants will benefit from personalized feedback and guidance, ensuring they can confidently apply their new skills in their professional roles. This comprehensive and -engaging training program equips telecommunications specialists with the expertise needed to excel in today's fast paced telecom industry.

فئات الدورات التدريبية

الدورات التدريبية في مجال البيئة والاستدامة	دورات إدارة الجودة وتطوير العمليات
دورات إدارة و تحليل البيانات ودورات علم البيانات	دورات إدارة و تطوير الموارد البشرية
دورات الذهن السيرياني ودورات تقنية المعلومات	دورات الاتصال الجماهيري و السياسات والعلاقات العامة
دورات التدريب القانوني والهشتريات والتعاقدات	دورات التسويق وإدارة علاقات العملاء وإدارة المبيعات
دورات الحوكمة وإدارة المخاطر والامتثال	دورات السكرتارية و إدارة المكاتب
دورات الصحة والسلامة والذهن المهني	دورات الصيانة ودورات المجالات الهندسية المتنوعة
دورات المحاسبة و التهويل و دورات الإدارة المالية	دورات المهارات الشخصية وتطوير الذات
دورات في مجالات القيادة والإدارة	دورات معتمدة من قبل هيئات دولية
دورات مكتب إدارة المشاريع وإدارة المشاريع الرشيقية	



معدن التدريب

أكرا غانا	أثينا اليونان	أبوظبي الإمارات العربية المتحدة
الجبيل المملكة العربية السعودية	استنبول تركيا	أهستردام هولندا
الرياض المملكة العربية السعودية	الدوحة قطر	الدار البيضاء المغرب
المنامة مملكة البحرين	الكويت الكويت	القاهرة مصر
بانكوك تايلند	باكو أذربيجان	باريس فرنسا
برلين ألمانيا	برشلونة إسبانيا	براغ جمهورية التشيك
تيليسي جورجيا	بوكيت تايلاند	بورتو البرتغال
جنيف سويسرا	جاكارتا جمهورية إندونيسيا	تورنتو كندا
روما إيطاليا	دبي الإمارات العربية المتحدة	جوهانسبرغ جنوب أفريقيا
سنغافورة سنغافورة	سان دييغو الولايات المتحدة الأمريكية	زنجان تنزانيا
شيكاغو الولايات المتحدة الأمريكية	نهر الشيخ مصر	سيول كوريا الجنوبية
طوكيو اليابان	طشقند أوزبكستان	طرابزون تركيا
فرانكفورت ألمانيا	عن بعد منصة زووم	عمان المملكة الأردنية الهاشمية



مدن التدريب

كيب تاون جنوب افريقيا	كوالالمبور ماليزيا	فيينا النمسا
لندن المملكة المتحدة	لشبونة البرتغال	لانكاوي ماليزيا
مسقط سلطنة عمان	هدريد اسبانيا	ماربيا اسبانيا
ميونخ ألمانيا	ميلان إيطاليا	مونترو سويسرا
	نيويورك الولايات المتحدة الأمريكية	نيروبي كينيا