



VCX-IP Maintainer Course

(Level 0,1&2)

Target group Maintainers and system administrators	Location Customer site or Frequentis TEC (Vienna)
Language English (unless otherwise agreed)	Max. number of participants 6
Duration 5 days	Course ID AN0330

Participants will, through extensive practical exercises, learn how to perform scheduled and corrective system maintenance for VCX-IP up to level 2.

Course goals

Upon successful completion of this course, participants will be able to

- › understand the capabilities of the system
- › identify and describe the system components and their functions
- › add and modify A/G, G/G and data functions with their corresponding services
- › identify and rectify faults
- › replace line replaceable units (LRUs) and put them back into service
- › configure services for radio and telephone communication
- › configure services for data communication (if applicable)
- › maintain conversion tables and/or routing settings
- › adapt line parameter settings
- › set system parameters
- › perform system administration tasks
- › run backup and restore procedures

Knowledge

It is assumed that participants

- › have a good understanding of written and spoken English
- › have extensive ATC domain know-how
- › have extensive knowledge of air traffic control networks and telecommunication basics
- › have a good understanding of IP LAN & IP WAN infrastructure (L2, L3 switches, routers & firewalls)
- › are able to configure switches, routers and firewalls in command-line mode
- › have extensive understanding of servers, virtualisation of applications and RAID configuration
- › have expert knowledge of line characteristics/protocols of radio, telephone & data line interfaces in use
- › have experience with Linux OS
- › have basic knowledge of VoIP (SIP, RTP, QoS)
- › have extensive knowledge and skills of umbrella management
- › have expert knowledge and skills of system monitoring and how to derive priorities of incidents

Qualifications

The following qualifications are necessary:

- › English language level (CEFR): minimum B2
- › Cisco CCNA certification or equivalent experience and/or 5 years' engineering experience in IT and networking environments
- › Certified Telecommunications Analyst (CTA) certification or equivalent experience
- › Linux Foundation Certified Engineer (LFCE) or equivalent experience

Training agenda

Day 1	Welcome Health and safety Course documentation overview Introduction to the working environment System architecture and services System monitoring Conclusion
Day 2	Review Maintenance procedures System administration Inspection processes Conclusion
Day 3	Review System administration (cont.) Inspection processes and troubleshooting Conclusion
Day 4	Review Inspection processes and troubleshooting (cont.) Conclusion
Day 5	Review Case studies and best practices (instructor guided) Summary and review Student assessment Assessment feedback Student feedback Student certification Course closure

