



iSecCOM R/B 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 7 days	Course ID DE0331

Participants will, through extensive practical exercises, learn how to perform scheduled and corrective system maintenance for iSecCOM RED/BLACK up to level 2.

Course goals

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

- › understand the capabilities and security aspects of RED/BLACK iSecCOM systems
- › identify and describe the system components and their functions
- › use standard and project-specific functions for radio and telephone communication
- › use RED/BLACK operator positions including crypto-pooling and ECCM radios
- › identify and rectify faults
- › replace line replaceable units (LRUs) and put them back into service
- › maintain the radio and telephone directory
- › adapt layouts and settings of operator positions
- › perform system administration tasks
- › set system parameters for both domains (RED and BLACK)
- › run backup and restore procedures
- › optional: use the radio management system (RMS)

Knowledge

It is assumed that participants

- › have a good understanding of written and spoken English
- › have extensive knowledge of military ATC and/or C2 and telecommunication basics
- › have a good understanding of IP LAN & IP WAN infrastructure (L2, L3 switches, routers & firewalls)
- › are familiar with secure/non-secure data & comm. concepts, including cryptos and ECCM radios
- › are able to configure switches, routers and firewalls in command-line mode
- › have a good understanding of servers, virtualisation of applications and RAID configuration
- › have extensive knowledge of Oracle databases and Java
- › have extensive knowledge of line characteristics/protocols of the radio & tel. line interfaces in use
- › have experience with Linux OS
- › have good knowledge of VoIP (SIP, RTP, QoS)

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
- › Red Hat Cert. System Admin. (RHCSA) or Linux Foundation Cert. Engineer (LFCE) or equivalent experience
- › Certified IP Telecom Network Specialist (CIPTS) certification or equivalent experience
- › Certified Telecommunications Analyst (CTA) certification or equivalent experience
- › VMware Certified Associate (VCA) or equivalent experience

Training agenda

Day 1	Welcome Health and safety Course documentation overview Introduction to the working environment System architecture and services OP overview OP hands-on practice System monitoring Conclusion
Day 2, 3, 4	Review Maintenance procedures System administration Conclusion
Day 5, 6	Review Inspection processes and troubleshooting Conclusion
Day 7	Case studies and best practices (instructor guided) Summary and review Student assessment Assessment feedback Student feedback Student certification Course closure

