Military Branch: Army

Military Occupation: INFORMATION TECHNOLOGY SPECIALIST

Military Code: 25B

Training Levels: 3 different training levels- 25B30, 25B40 and 25B50.

Go To: Occupation Details Civilian Competencies ACE Credit Recommendations

Below are brief synopses of the Occupation and Training received by servicemen and women in this profession. Expanded information on both Occupation and Coursework can be obtained by clicking on these links.

Full Information Technology Specialist **Occupation- link**

Full Information Technology Specialist **Coursework- link**

Occupation Details- Synopsis

The Information Technology Specialist installs, operates and maintains computer systems and local area networks (LAN); performs system administration (SA) and maintains computers and servers within the computing environment (CE) and the network environment (NE); performs network administration (NA); installs, configures and maintains network equipment within the LAN; installs, operates, and maintains commercial off the shelf (COTS) equipment (i.e. routers, switches, desktop and laptop computers); provides SA to Tactical Battle Command Servers (TBC Server) in the tactical operations center (TOC); provides SA and direct support for Information Dissemination and Content Staging; performs Information Assurance (IA), provides the security services and attributes of availability, authentication, confidentiality, integrity and non-repudiation; Network Operations (NETOPS) Service Desk Management, which includes incident and problem processing, change request processing, availability management and user interaction; and assists in the planning, configuration, management, and monitoring of the wide area network (WAN).

Related Training Outcomes and Competencies:

Training for this position is comprised of 8 training versions. These are not necessarily sequential.

Training Length: *Version 1:* 11–18 weeks (453–632 hours). *Version 2:* 15 weeks (552 hours). *Version 3:* 17 weeks (648 hours). *Version 4:* 20 weeks (736 hours). *Version 5:* 20 weeks (794 hours). *Version 6:* 20 weeks (794 hours). *Version 7:* 20 weeks (794 hours). *Version 8:* 19 weeks (794 hours).

Version 1: Upon completion of the course, the student will have a basic working knowledge and understanding of microcomputer software, computer operating systems, software utilities, assembly/disassembly of microcomputers, data communications, local area networks, problem solving using structural design techniques, data base system design and development, and error recovery and security. Students will be able to use personal computer hardware and basic computer applications

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software.

Version 2: Upon completion of the course, the student will be able to demonstrate a basic working knowledge and understanding of microcomputer software, computer operating systems, software utilities, assembly/disassembly of microcomputers, data communications, local area networks, problem solving using structural design techniques, data base system design, develop and error recovery and security. Students will be able to use personal computer hardware and basic computer applications software.

Version 3: Upon completion of the course, the student will be able to maintain, troubleshoot, and repair networked personal computers; install operating system software and maintain networks; setup a mail exchange server and Microsoft Outlook; design and develop a database system using Microsoft Access 2003; design and develop websites; and setup Local Area Networks (LANs).

Version 4: Upon completion of the course, the student will be able to maintain, troubleshoot, and repair networked personal computers; install operating system software; maintain and upgrade networks using Windows XP and Microsoft 2003 Server (Administrative) software; setup a mail exchange server and Microsoft Outlook; manage Local Area Networks (LANs) using UNIX/Solaris; implement and monitor tactical radio communication systems; and perform mapping and overlays for maneuver control system workstations.

Version 5: Upon completion of the course, the student will be able to maintain, troubleshoot , and repair networked personal computers, operating system software, windows XP and Microsoft 2003 Server; setup an exchange server and Microsoft Outlook; install and manage local area networks; install and maintain virus software; understand networking topologies; understand internetworking concepts, access lists, direction structures and account management; UNIX/Solaris installation; providing network security and protecting systems from worms and viruses; and understand several military-specific digital communications systems.

Version 6: Upon completion of the course, the student will be able to review security laws and regulations; administer networks; install and configure server software; perform routing commands; review the OSI model; perform system administration; and perform troubleshooting and repair.

Version 7: Upon completion of the course, the student will be able to maintain, troubleshoot, and repair networked personal computers; describe PC hardware components and explain their functions; describe the OSI model and explain functions of each layer; perform a Windows exchange server installation; explain concepts of internetworking and Internet protocols; identify Fundamentals of Information Systems Security; configure Routing Internet Protocols (RIPv1), (RIPv2); install and configure Windows server; and perform security vulnerability assessment.

Version 8: Upon completion of the course, the student will be able to perform lab procedures; perform maintenance and troubleshooting; administer operating systems; configure networks based on the OSI

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model; develop and configure routing tables; administer networks; and review security laws and regulations.

Training Matching Civilian Occupations

A+ certification topics include antivirus software, hardware components, memory, operating systems, PC security, and processors.

Server administration topics include active directory, backup administration, Domain Name Service (DNS), Microsoft exchange server installation, network operating system, and Windows server installation and configuration.

System administration topics include control programs, directory and file structure, operating systems, SOLARIS, and system maintenance.

Net+ certification topics include basic router commands, ethernet standards, network media, network terminology, OSI model, and subnetting fundamentals.

Security+ topics include firewalls, laws and regulations, malware, network vulnerabilities and attacks, and safeguarding information.

PC troubleshooting and repair topics include computer diagnostic tools, hardware and software configurations, hardware and software installation, internal data pass, maintenance fundamentals, and peripheral installation.

CISCO network fundamentals topics include Net+ overview, network models, networking terminology, OSI model, routing and protocols, TCP/IP protocol, topology, and tracing software.

CISCO routing protocols topics include CCNA2 exams, dynamic routing protocols, Enhanced Interior Gateway Routing Protocol (EIGRP), network devices, Open Shortest Path First (OSPF), Routing Internet Protocol (RIPv1) (RIPv2), routing tables, and static and dynamic routing protocols.

IT Essentials I topics include communication skills, computer assembly, IT Essentials I exam, operating systems, preventive maintenance and troubleshooting, printers and scanners, and safe lab procedures.

IT Essentials II topics include advanced network concepts, advanced output devices, advanced portable device administration, advanced security concepts, IT Essentials II exam, and operating system administration.

CISCO network fundamentals topics include Net+ overview, network models, networking terminology, open system interconnect models (OSI), routing and protocols, TCP/IP protocol, topology, and tracing software.

CISCO routing protocols topics include CCNA2 exams, Enhanced Interior Gateway Routing Protocol (EIGRP), network devices, Open Shortest Path First (OSPF), Routing Internet Protocol (RIPv1) (RIPv2), routing tables, and static and dynamic routing protocols.

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Network administration topics include control programs, directory and file structure, mail server, network configuration, network maintenance, server, UNIX command line, UNIX operating systems, and user administration.

ACE credit recommendations

ACE's Military Guide presents college credit recommendations for formal courses and occupations offered by all branches of the military.

All recommendations are based on ACE reviews conducted by college and university faculty members who are actively teaching in the areas they review.

Below are credit recommendations for the INFORMATION TECHNOLOGY SPECIALIST training, at the 3 levels listed.

Military Course	**Recommended Semester Hours**	**Credit Level Recommendation** **V-Vocational** **L-Lower division baccalaureate/associates** **U- Upper division baccalaureate**	**Training included in each skill level**		
			25B30	**25B40**	**25B50**
Intro to Project Management	3 SH	L	X	X	X
Communications	3 SH	L	X	X	X
Virtualization	3 SH	L	X	X	X
Help Desk Technician	3 SH	L	X	X	X
Server Administration	3 SH	L	X	X	X
Network Administration	3 SH	L	X	X	X
Management	3 SH	U		X	X
Applied Leadership	3 SH	U		X	X
Human Resource Management	3 SH	U			X
Strategic Management	3 SH	U			X
Total semester hours recommended			18 SH	24 SH	30 SH
Quarter hours recommended			27* QH	36 QH	45 QH

- Common semester hour/quarter hour conversion rate is: Semester hrs X 1.5= Quarter hours

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Onet Military crosswalk results

Onet is a civilian occupational crosswalk created and maintained by the Department of Labor. It includes a military crosswalk, but the Onet crosswalk does not include military occupation or training information. The military crosswalk provides civilian occupations that align with military training. The Onet tool can be used to provide only general occupational crosswalking for military to civilian career paths.

Onet results for **Military Occupation: INFORMATION TECHNOLOGY SPECIALIST**

Military Code: 25B- http://www.onetonline.org/crosswalk/MOC?b=A&s=25b&g=Go

Similar Matching Civilian Occupation Profile via Onet- http://www.onetonline.org/link/summary/15-1152.00

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