

GUIDE TO THE EVALUATION OF EDUCATIONAL EXPERIENCES IN THE ARMED SERVICES

OCCUPATION EXHIBIT

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MOS-25U-001

SIGNAL SUPPORT SYSTEMS SPECIALIST

25U10
25U20
25U30
25U40
25U50

Exhibit Dates: 10/04–6/14.

Career Management Field: 25 (Communications and Information Systems Operation).

Description

Summary: Supervises, installs, employs, maintains, troubleshoots and assists users with battlefield signal support systems, terminal devices, satellite communications equipment and automated telecommunications computer systems, to include local area networks, wide area networks and routers. Integrates signal systems and networks; performs unit level maintenance on authorized signal equipment and associated electronic devices; trains and provides technical assistance to users of signal equipment; and operates and performs preventive maintenance checks and services (PMCS) on assigned vehicles and power generators. **Skill Level 10:** Installs, maintains and troubleshoots signal support equipment and terminal devices. Installs, operates and maintains designated radio, wire, cable and data distribution systems. Maintain selected electronic devices. Performs signal support functions, to include providing technical assistance and training for user owned and operated automated telecommunication computer systems, local area networks and routers; signal communications and support electronic equipment and satellite radio and communications equipment. Prepares maintenance and supply requests for unit level signal support. Operates and performs preventive maintenance checks and services (PMCS) on assigned vehicles. Install, operates and performs preventive maintenance checks and services (PMCS) on power generators. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises, installs, maintains and troubleshoots signal support systems and terminal devices, to include radio, wire and battlefield automated systems (BAS). Provides technical assistance and unit level training for automation, communication and user owned and operated automated telecommunications computer systems, to include local area networks and routers; signal communications support electronic equipment; and satellite radio communications equipment. Disseminate information services policy. Prepares maintenance and supply requests for unit level signal support. Operates and performs preventive maintenance checks and services (PMCS) on assigned vehicles. Operates and performs preventive maintenance checks and services (PMCS) on assigned power generators. **Skill Level 30:** Able to perform the duties required for Skill Level 20; plans, supervises and integrates the installation, operation and maintenance of signal support systems, to include radio, wire, cable and battlefield automated systems. Plans and provides unit level training for automated telecommunications systems, to include local area networks, wide area networks and routers; signal communications and support electronic equipment; and satellite radio communications equipment. Assist in staff supervision of information services. Plans, supervises and executes unit level maintenance programs for signal equipment. Prepares and integrates signal operations orders and reports. Requests maintenance and supply replenishment for signal support operations. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises, plans and executes the installation, operation and maintenance of signal support systems, to include local area networks, wide area networks and routers; satellite radio communications and electronic support systems; and network integration using radio, wire and battlefield automated systems (BAS). Develops and implements unit level signal maintenance programs. Directs unit signal training and provides technical advice and assistance to commanders. Develops and executes information services policies and procedures for supported organizations. Coordinate external signal support mission requirements. Prepares and implements Signal operations orders and reports. Plans and requests Signal logistics support for unit level operations and maintenance. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervise, plan, and integrates the installation, employment and maintenance of signal support systems, automated telecommunications systems, satellite radio communications

systems and communications networks, using radio, wire and battlefield automated systems. Develop Staff information services policy and procedures. Establish unit signal maintenance programs, policies and procedures. Plans and conducts Division, Brigade and Battalion Signal support operations and user owned and operated Signal equipment training. Provide technical advice and assistance to commanders and subordinate units. Coordinates signal activities with higher, lower and adjacent headquarters.

Related Competencies

Computer applications topics include data and system security, file management, MS Access, MS Excel, MS Outlook, MS PowerPoint, MS Word, and presentation development. **Supervision** topics include counseling, evaluation, evaluation and performance appraisal, mentoring, planning, team building, and training. **Maintenance management** topics include inventory control, organizing, quality assurance, requisitioning ordering, scheduling, and work orders. **Electronics basics** topics include AC circuits in reactance and impedance; basic test equipment (multimeters, signal sources, power supplies, and oscilloscopes); series and parallel circuits in resistance, capacitance, and inductance; and transformers. **Introduction to PC hardware, maintenance, troubleshooting, and repair** topics include component maintenance and troubleshooting, customer service and communications, hardware components and identification, safety precautions, and tools and their uses. **Electronic troubleshooting and repair** topics include circuit measurement, circuit waveform analysis, power supply fault analysis, resistance measurements, signal tracing, visual inspection, and voltage/current/power measurements. **Computer technology repair** topics include diagnostic testing, hardware and software configurations, hardware and software installation, hardware maintenance, and visual inspection. **Network security** topics include cryptography, encryption technology, firewall concepts and policies, malware, security administration, threats and vulnerabilities, and virus protection. **Network fundamentals** topics include domain name system (DNS), firewalls, functions and implementation of routable and non-routable protocols, IP addressing, network types, OSI model and TCP/IP, and topology and devices. **Management principles** topics include controlling, coordinating, leading, motivation, planning, and policy and procedures development. **Operations management** topics include budgets; contract administration; inventory management; logistics; maintenance; movement of personnel, equipment, and supplies (planning, organizing, and executing); and scheduling.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (2/09)(2/09).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/09)(2/09).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in computer applications; 3 in supervision; 3 in maintenance management; 3 in electronics basics; 3 in electronic troubleshooting and repair; 3 in introduction to PC hardware, maintenance, troubleshooting, and repair; 3 in computer technology repair; 3 in network security; and 3 in network fundamentals (2/09)(2/09).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 1 semester hour in computer applications; 3 in supervision; 3 in maintenance management; 3 in electronics basics; 3 in electronic troubleshooting and repair; 3 in introduction to PC hardware, maintenance, troubleshooting, and repair; 3 in computer technology repair; 3 in network security; and 3 in network fundamentals. In the upper-division baccalaureate degree category, 3 semester hours in management principles (2/09)(2/09).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 1 semester hour in computer applications; 3 in supervision; 3 in maintenance management; 3 in electronics basics; 3 in electronic troubleshooting and repair; 3 in introduction to PC hardware, maintenance, troubleshooting, and repair; 3 in computer technology repair; 3 in network security; and 3 in network fundamentals. In the upper-division baccalaureate degree category, 3 semester hours in management principles; and 3 in operations management (2/09)(2/09).

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ACE occupation reviews are conducted by faculty currently teaching at appropriately accredited colleges and universities. Faculty teams analyze the official occupation standards and validate the duties and requirements through service member interviews to determine if the content, scope, and rigor of the experiential learning align to current postsecondary curricula. A minimum of 3 faculty evaluators must achieve consensus on credit recommendations. Please see [Faculty Evaluators - Home Page](#) for more information.

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