

Field Network Engineer

Designs and plans network communications systems. Provides specifications and detailed schematics for network architecture. Provides specific detailed information for hardware and software selection, implementation techniques and tools for the most efficient solution to meet business needs, including present and future capacity requirements. Conducts testing of network design. Maintains technical expertise in all areas of network and computer hardware and software interconnection and interfacing, such as routers, multiplexers, firewalls, hubs, bridges, gateways, etc. Evaluates and reports on new communications technologies to enhance capabilities of the network. Provides technical support to business area management and staffs for personal computer systems software, hardware and network connectivity. Installs, configures and troubleshoots desktop systems, workstations and network connectivity issues. May assign and maintain user passwords for specialized software. Installs, operates, maintains, repairs and modifies equipment. Performs a variety of maintenance and technical support on products such as equipment, integrated systems and subsystems, and software at customer and/or field locations. Analyzes and evaluates products and related performance. Troubleshoots and diagnoses malfunctions to eliminate problem in minimum time. Installs, upgrades and removes products ensuring coordinative engineering field change. Maintains effective customer communications and relations. May provide onsite training of customer support personnel.

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
	Field Network Engineer I	Field Network Engineer II	Field Network Engineer III	Field Network Engineer IV	Associate Principal Field Network Engineer	Principal Field Network Engineer	Sr. Principal Field Network Engineer	Chief Engineer
Discretion/Latitude	Work is closely supervised. Follows specific, detailed instructions and/or guidance from more senior functional staff.	Works under general supervision. Follows established procedures. Work is reviewed for soundness of technical judgment, overall adequacy and accuracy.	Works under only general direction. Independently determines and develops approach to solutions. Work is reviewed upon completion for adequacy in meeting objectives.	Work is performed without appreciable direction. Exercises some latitude in determining technical objectives of assignment. Completed work is reviewed for desired results.	Work is performed without appreciable direction. Exercises considerable latitude in determining technical objectives of assignment. Completed work is reviewed from a relatively long-term perspective, for desired results.	Works under consultative direction toward predetermined long-range goals and objectives. Determine and pursue courses of action necessary to obtain desired results. Completed work is reviewed from a relatively long-term perspective, for desired results.	Works under consultative direction toward predetermined long-range goals and objectives. Assignments are often self-initiated. Determines and pursues courses of action necessary to obtain desired results. Work checked through consultation and agreement with others rather than by formal review of superior.	Often acts independently to uncover and resolve issues associated with the development and implementation of operational programs. Plans R&D programs and recommends technological application programs to accomplish long-range objectives. Work is checked only to the effectiveness of results obtained. Typically requiring a long-term perspective.

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Knowledge, Skills, & Abilities	Limited use and/or application of basic technical principles, theories and concepts to specific job assignments.	Frequent use and application of basic technical standards, principles, theories, concepts and techniques.	Complete understanding and wide application of technical principle, theories and concepts in the field. General knowledge of other related disciplines.	Applies technical expertise and has detailed knowledge of other related disciplines.	Applies extensive technical expertise and has full knowledge of other related disciplines. Answers technical questions regarding products and services, and may take part in putting together proposals, configurations, and product offerings.	Applies advanced technical principles, theories and concepts. Contributes to the development of new principles and concepts. Identifies, analyzes and develops new business opportunities. Answers unusually complex technical questions regarding products and services, and takes part in putting together proposals, configurations, and product offerings.	Applies advanced technical principles, theories and concepts. Contributes to the development of new principles and concepts. Widely recognized for achievements, technical expertise and meritorious standing within professional field. Identifies, analyzes and develops new business opportunities. Establishes customer contacts, conducts research and analysis into their future plans and needs, assists with the development of their specifications, develops proposals, and delivers marketing presentations.	Exhibits an exceptional degree of ingenuity, creativity, and resourcefulness. Applies and/or develops highly advanced technologies, scientific principles, theories and concepts. Viewed as leading experts within the field. Establishes long-range marketing plans for the organization's products and services by identifying, analyzing and developing new business opportunities. Establishes customer contacts, develops proposals, and delivers marketing presentations. Maintains relationships with key decision makers.
Problem Solving	Develops solutions to routine technical problems of limited scope by following standardized practices and procedures.	Provides solutions to a variety of technical problems of moderate scope and complexity.	Provides technical solutions to a wide range of difficult problems. Solutions are imaginative, thorough, practicable and consistent with organization objectives.	Develops technical solutions to complex problems that require the regular use of ingenuity and creativity.	Develops technical solutions to complex problems that require the regular use of ingenuity and creativity.	Works on unusually complex technical problems and provides solutions that are highly innovative and ingenious.	Works on unusually complex technical problems and provides solutions that are highly innovative and ingenious.	Develops information which extends knowledge in a given field. Information may form the basis of newly developed concepts, theories and products.

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Impact	Contributes to the completion of routine technical tasks. Failure to achieve results can normally be overcome without serious effect on schedules and programs.	Contributes to the completion of milestones associated with specific projects. Failure to achieve results or erroneous decisions or recommendations may cause delays in program schedules and may result in the allocation of additional resources.	Contributes to the completion of specific programs and projects. Failure to obtain results or erroneous decisions or recommendations would typically result in serious program delays and considerable expenditure of resources.	Plans and conducts assignments, generally involving the larger and more important projects or more than one project. Erroneous decisions or recommendations would typically result in failure to achieve major contract objectives.	Regularly called upon to function in a project leadership role. Erroneous decisions or recommendations would typically result in failure to achieve major organization objectives.	Develops technological ideas and guides their development into a final product. Erroneous decisions or recommendations would typically result in failure to achieve critical project objectives. Leads the planning and implementation of large projects/programs. Contributes to department goals and planning efforts.	Develops advanced technological ideas and guides their development into a final product. Erroneous decisions or recommendations would typically result in failure to achieve critical organizational objectives and affect the image of the organization's technological capability. Functions in a program leadership role. Plays a key role in implementing programs/projects and makes significant contributions to department goals and overall functional strategic planning efforts.	Designs research and develops highly advanced new applications resulting in new product/business opportunities for the company. Erroneous decisions or recommendations would have a long-term negative effect on organization's reputation and business posture. Leads development and implementation of key programs and/or processes for the organization.
Liason	Contacts are primarily with immediate supervisor, project leaders, and other professionals in the section or group.	Primarily internal company contacts. Infrequent inter-organizational and outside customer contacts on routine matters.	Frequent inter-organizational and outside customer contacts. Represents the organization in providing solutions to technical issues associated with specific projects.	Represents the organization as the technical contact on contracts and projects. Interacts with external personnel on technical matters often requiring coordination between organizations.	Represents the organization as the prime technical contact on contracts and projects. Interacts with senior external personnel on significant technical matters often requiring coordination between organizations.	Serves as organization spokesperson on projects and/or programs. Acts as advisor to management and customers on advanced technical research studies and applications.	Serves as organization spokesperson on advanced projects and/or programs. Acts as advisor to management and customers on advanced technical research studies and applications. Often instrumental in attracting and obtaining major new company business.	Serves as consultant to top management in long-range company planning concerning new or projected areas of technological research and advancements. Prime spokesperson on company's technical capabilities and future directions. Often instrumental in attracting and obtaining major new company business.

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Work Products (Examples may include but are not limited to)	Understands basic Telecommunications principles (or network). Capable of following written instructions. Understands and capable of following S.O.P.s. Achieves minimum certifications required of job functions. Creates a user account. Able to comprehend technical manuals, documents.	General understanding of RF, Networking, Application topology. Liaisons between organization client(s) and outside entities. Capable of installing security patches. Maintains configuration management of installed systems. Participates in data collection and data analysis. Participates in C4I planning meetings/conferences. Assists systems administrators with Information Systems management. Understands C4I interoperability of systems at the NOC. Manages network shares. Basic understanding of Active Directory. DHCP/DNS. Able to comprehend technical manuals, documents.	Principal advisor who interacts with senior leadership (N6, N3, RDML). Performs O.J.T. to clients (users/maintainers). Assists in developing S.O.P.'s. Presents data analysis conclusions and make recommendations. Proactively monitors RF/Network/Applications to detect anomalies and makes recommendations to remedy. Displays competence in using distance support tools (chat/email/POTS). Understands C4I interoperability of systems across a Strike Group. Understands C4I interoperability of systems at the NOC. Understands C4I interoperability of systems end-to-end ship-shore. Understands C4I interoperability of systems inter/intra-AOR. Advanced understanding of Active Directory. Collaborates in the creation/editing of technical documents. Assists in Computer Network Defense (CND). Assists with planning requirements. Assists in training, troubleshooting and maintenance as directed Works with counterparts ashore to	Provides speed to capability installations/modifications. Provides flag level briefings on C4I matters. Expert understanding of Active Directory. Authors technical documents. Designs network topology. Internetworking Expert. Systems Engineer. Provides technical expertise to design, install, and support systems throughout the afloat community and shore establishments. Provides in-service engineering technical support for accelerated introduction of POR systems or modification of commercial technology.	—	—	—	—

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			resolve end-to-end issues. Resolves C4I issues that involve multiple systems.					
Minimum Education and Experience	0-2+ years with BS in designated Engineering, Information Technology or related field or equivalent experience and/or applicable industry certifications.	2-5+ years with BS in designated Engineering, Information Technology or related field or equivalent experience and/or applicable industry certifications.	5-8+ years with BS in designated Engineering, Information Technology or related field or equivalent experience and/or applicable industry certifications.	8-10+ years with BS in designated Engineering, Information Technology or related field or equivalent experience and/or applicable industry certifications.	10-12+ years with BS in designated Engineering, Information Technology or related field or equivalent experience and/or applicable industry certifications. Employees usually have advanced degree in field of specialization.	12+ years with BS in designated Engineering, Information Technology or related field or equivalent experience and/or applicable industry certifications. Employees usually have advanced degree in field of specialization.	15+ years with BS in designated Engineering or related field. Employees usually have advanced degree in field of specialization.	20+ years of broad and extensive professional experience with BS in designated Engineering, Information Technology or related field. Employees usually have advanced degree in field of specialization and applicable industry certifications.