

Knowledge, Skill, Ability, and Personal Characteristic Statements

Assistant Telecommunications Engineer

KSAPC #	KSAPC Statement
1.	Knowledge of the theory and principles of telecommunications and electronics for the installation, maintenance, modification, and repair of equipment and systems.
2.	Ability to apply the theory and principles of telecommunications and electronics for the installation, maintenance, modification, and repair of equipment and systems.
3.	Knowledge of the design, uses, and functions of telecommunication systems and equipment (e.g., wireline, radio, fiber, satellite, data communications, telephone systems) in order to perform essential work functions.
4.	Knowledge of principles, practices, methods, terminology and trends in telecommunication systems engineering.
5.	Knowledge of frequency spectrum allocations to effectively design telecommunication systems.
6.	Knowledge of the field of electromagnetic wave propagation to effectively design and test telecommunications systems.
7.	Knowledge of signal strength measurements and tolerances to effectively design, test, and maintain telecommunication systems.
8.	Ability to interpret and apply provisions of State and federal rules and regulations affecting the design, implementation, and operation of telecommunication systems.
9.	Knowledge of methods and devices (e.g., cabling, connectors) for interconnecting telecommunication equipment and systems.
10.	Knowledge of industry standards and best practices related to the design, implementation, and maintenance of telecommunication systems.
11.	Ability to use precision instruments for measuring system performance (e.g., frequencies, power, modulation, losses and other parameters) to maintain proper system performance.
12.	Ability to use computers and network equipment to configure, monitor, test and/or operate telecommunication systems.
13.	Ability to write clearly and concisely using proper spelling, grammar, syntax and sentence structure.
14.	Ability to verbally communicate information and ideas so others will understand.
15.	Ability to develop and maintain constructive and cooperative working relationships.

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16.	Ability to write technical reports to communicate complex information to various audiences.
17.	Ability to actively listen to others to facilitate an open exchange of ideas and provide for effective communication.
18.	Ability to prioritize work assignments and/or problem solutions to ensure completion within established timeframes.
19.	Ability to work independently on projects or assignments without close supervision or detailed instructions to achieve intended results.
20.	Ability to perform job tasks during stressful working conditions (e.g., deadlines, multiple assignments).
21.	Knowledge of mathematical principles used in design and implementation of telecommunication systems.
22.	Ability to apply mathematical principles and statistical analysis to design and evaluate telecommunication systems.