

# Task Statements

## Associate Telecommunications Engineer

<b>Task #</b>	<b>Task Statement</b>
1.	Design telecommunication systems (e.g., wireline, radio, fiber, satellite) to satisfy voice, video, and/or data requirements of an end user.
2.	Conduct telecommunication studies/surveys to predict system performance related to satisfying end user requirements utilizing appropriate tools or methodologies (e.g., computer simulation modeling, field strength measurements, analytical calculations).
3.	Conduct telecommunication systems studies to identify and evaluate alternatives, estimate costs, and recommend an optimal solution for satisfying end user requirements.
4.	Develop and write operational and/or functional requirements for telecommunication systems to satisfy end user requirements.
5.	Develop and write technical specifications for telecommunication systems to satisfy end user requirements.
6.	Develop and write technical specifications for telecommunication equipment to satisfy end user requirements.
7.	Evaluate vendor proposals for telecommunication systems and/or equipment to ensure compliance with technical specifications and end user requirements.
8.	Conduct acceptance testing on equipment and systems to verify specification compliance.
9.	Develop technical standards for telecommunication systems to ensure compliance with federal, state and local requirements, and for effective implementation, operation, and maintainability.
10.	Understand applicable standards and apply them to the design, implementation and management of telecommunication systems.
11.	Provide technical advice and guidance to end users on telecommunication technologies and regulations for voice, video and data systems.
12.	Provide technical assistance and instruction to field maintenance staff in testing, repairing, and resolving system issues.
13.	Plan and coordinate the implementation of telecommunication projects based on operational needs of the end user utilizing project management methods and tools.
14.	Develop hardware and/or software configurations to control the operation of telecommunication equipment and systems.
15.	Act as technical advisor to management on telecommunication issues.
16.	Develop strategies for telecommunication technologies and resources to resolve end user requirements.

Task #	Task Statement
17.	Develop engineering documentation and drawings (e.g., schematics, interconnections, physical layouts) to direct the installation and to facilitate the future enhancement and maintenance of telecommunication systems.
18.	Demonstrate and train clients/end users in the use and proper operation of telecommunication equipment and systems.
19.	Prepare engineering reports (e.g., feasibility reports, functionality reports, study reports) for presentation to stakeholders.
20.	Analyze technical data to determine if new equipment is compatible with other system components and recommend solutions to any inconsistencies.
21.	Evaluate and discuss telecommunication systems, prototypes, and proposals with vendors and/or end users to determine applicability to current or future systems.
22.	Act as leadperson for a project team in connection with design and implementation of telecommunication systems to monitor work quality and progress.
23.	Participate in planning of projects from inception to implementation to ensure timely completion of projects.
24.	Document project objectives, scope, and charter to define and initiate the project.
25.	Develop technical information for contracts, including license requirements, certification, scope of work, deliverables, and schedules, to initiate telecommunication systems implementation/maintenance services.
26.	Evaluate current and proposed sites and facilities to determine suitability for telecommunication systems implementation.