Class Code: 04779

Iowa Department of Administrative Services – Human Resources Enterprise Job Classification Description

Telecommunications Design Specialist

Definition

Performs and/or oversees work concerned with designing, implementing, and coordinating new and existing telecommunications systems and subsystems; performs related work as required.

The work examples and competencies listed below are for illustrative purposes only and not intended to be the primary basis for position classification decisions.

Work Examples

Assists supervisor by performing such duties as instructing employees, answering questions, distributing and balancing the workload, and checking work; may make suggestions on selection, promotions, and reassignments.

Consults with employees of state agencies and vendors to determine agency needs, requirements, and limitations regarding telecommunications equipment by personal visits, telephone, or through mail.

Conducts studies and interviews with agency users to determine the degree of user acceptance and attitudes toward existing systems, as well as needs for future enhancements.

Designs systems to comply with agency needs and requirements and trains agency personnel in use of new telecommunications.

Provides direction and control of service order activity processing, maintenance, and repair services to ensure that all operations are completed in a proper and timely manner.

Makes technological recommendations concerning the acceptance or non-acceptance of proposed new telecommunications system and services.

Analyzes proposals received from vendors offering new transmission services for Capitol Complex and other state locations and making recommendations for acceptance/rejection of such proposals.

Competencies Required

Knowledge:

- Telecommunications Transmission, broadcasting, switching, control, and operation of telecommunications systems.
- Administration and Management Business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.
- Customer and Personal Service Principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.

Engineering and Technology – Practical application of engineering science and technology. This
includes applying principles, techniques, procedures, and equipment to the design and production
of various goods and services.

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- Computers and Electronics Circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
- Mathematics Arithmetic, algebra, geometry, calculus, statistics, and their applications.
- Design Design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

Abilities:

- Deductive Reasoning Apply general rules to specific problems to produce answers that make sense.
- Inductive Reasoning Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).
- Written Comprehension Read and understand information and ideas presented in writing.
- Oral Comprehension Listen to and understand information and ideas presented through spoken words and sentences.
- Oral Expression Communicate information and ideas in speaking so others will understand.
- Problem Sensitivity Tell when something is wrong or is likely to go wrong. It does not involve
 solving the problem, only recognizing there is a problem.

Skills:

- Complex Problem Solving Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
- Critical Thinking Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.
- Reading Comprehension Understanding written sentences and paragraphs in work related documents.
- Speaking Talking to others to convey information effectively.
- Systems Evaluation Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.
- Systems Analysis Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.

Minimum Qualification Requirements

Applicants must meet at least one of the following minimum requirements to qualify for positions in this job classification:

- 1) Graduation from an accredited four-year college or university with a degree in any field and experience equal to four years of full-time work in one or any combination of:
 - a. The construction, plant, commercial, or marketing section of a telephone company; or
 - b. Professional electrical engineering design and/or maintenance of communications systems and equipment; or

- c. Government or private industry where the primary responsibility involved the planning, designing, implementation, coordination, and maintenance of telecommunications systems.
- 2) All of the following (a and b):
 - a. Four years of full-time work experience (as described in number one); and
 - b. A total of four years of education and/or full-time experience (as described in number one), where thirty semester hours of accredited college or university course work in any field equals one year of full-time experience.

Effective date: <u>1/17 SA</u>

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