Effective Date: July 2, 2000

STATE OF WISCONSIN
CLASSIFICATON SPECIFICATON

NETWORK CABLE TECHNICIAN

I. INTRODUCTION

A. Purpose of This Classification Specification

This classification specification is the basic authority under Wis. Admin. Code ER 2.04 for making classification decisions relative to present and future technical positions who work with network cable systems. This classification specification is not intended to identify every duty which may be assigned to positions, but is intended to serve as a framework for classification decision making in this occupational area.

Classification decisions must be based on the "best fit" of the duties within the existing classification structure. The "Best fit" is determined by the majority (i.e., more than 50%) of the work assigned to and performed by the position when compared to the class concepts and definition of this specification or through other methods of position analysis. Position analysis defines the nature and character of the work through the use of any or all of the following: definition statements; listing of areas of specialization; representative examples of work performed; allocation patterns of representative positions; job evaluation guide charts, standards or factors; statements of inclusion and exclusion; licensure or certification requirements; and other such information necessary to facilitate the assignment of positions to the appropriate classification.

B. Inclusions

The technical positions in this classification are responsible for the design[1], implementation, coordination, installation, and/or oversight of a wide variety of activities for complex network cable wiring systems for voice, data, and video.

C. Exclusions

Excluded from this classification series are the following types of positions:

1. Positions which are responsible for the day-to-day telephone and related equipment services for a campus or agency with complex telecommunication systems for the majority of time and are more appropriately classified as Administrative Telecommunications Specialist.

2. Positions which are professional and responsible for the full range of software, hardware, and connectivity which supports the functions of computers in network configurations the majority of time and are more appropriately classified as IS (N) Professional.

[1] Design involves the exercise of initiative, judgment, creativity, and application of a cumulative, specialized and practical knowledge in the creation of cable systems where schematic diagrams are not readily available, the system has critical and unique cost, safety, size, performance and/or operational requirements, and/or involves calculating the component values necessary to the system operation.

3. Positions which are technical and responsible for electronic systems the majority of time and are more appropriately classified as Electronics Technician.

4. All other positions which are more appropriately identified by other classification specifications.

D. Entrance Into This Classification

Employes enter positions in this classification by competitive examination.

II. DEFINITION

NETWORK CABLE TECHNICIAN

The technical positions in this classification require extensive knowledge of voice, data, and video network cable systems. Responsibilities include installing data cables, testing cable networks, trouble shooting complaints, monitoring cable performance and/or overseeing contractor work, setting priorities, and coordinating work schedules. Job duties include designing, planning, constructing, managing and operating complex network cable systems or overseeing contractors. Positions may also perform job duties described as Electronics Technician; however, these duties would not be the majority of the responsibilities. Positions must perform or oversee a majority (more than 50%) of the duties identified herein a majority (more than 50%) of their time.

Examples of Equipment/Systems/Work:

- Work with unshielded twisted pair, single- and multi-mode fiber optic, coaxial cable, or equivalent.
- Use diagnostic equipment to troubleshoot problems, maintain lines, or repair cable. (Equipment such as analog and digital voltmeters, oscilloscopes, signal generators, breakout boxes, cable scanners, LANmeters, portable sniffers, fiber-optic light source and power meter, laptop computers using ip/ipx protocols, and electronic circuitry, copper and fiber optic cable, or equivalent may be used.)
- Plan, install, maintain, and relocate network hardware. (Hardware such as Cisco routers and switches, 3Com shared Ethernet hubs, Plexcom repeaters, hubs, transceivers, Network General Sniffers, and other equivalent network monitoring equipment.)
- Install, maintain, and troubleshoot intra building fiber-optic cables from IDF to wiring closets, terminate with ST and SC type fiber-optic connectors, manufacture and provide fiber patch cords, maintain and troubleshoot outside plant inter building fiber-optic cables, or equivalent, or oversee contractors.
- Troubleshoot complaints.
- Monitor, inspect and approve the work of contractors.
- Certify data wiring and monitor, inspect, and conduct all tests required, ensuring all system component connections are operating properly. (Equipment such as to CAT 3 and CAT 5 for compliance with Ethernet and Fast Ethernet standards, and other comparable equipment.)

- Maintain knowledge on evolving data communication concepts. (Examples such as Baud speeds, ASCII Vs EBCDIC codes, full and half-duplex data transmission, synchronous and asynchronous data transmission, EIA RS-232C Protocol, signal multiplexing methods and their attributes and limitations, or equivalent and related concepts.)

- Maintain a computer based equipment and cable management system.

- Install and repair telephony related equipment, interconnecting devices, and multiple equivalent technologies across wiring plant, hardware, network platforms, and install and repair video multi-plexes, cabling, amplifiers, splitters, connectors, and connections, or equivalent.

III. QUALIFICATIONS

The qualifications required for these positions will be determined at the time of recruitment. Such determinations will be made based on an analysis of the goals and worker activities performed and by an identification of the education, training, work, or other life experience which would provide reasonable assurance that the knowledge and skills required upon appointment have been acquired.

IV. ADMINISTRATIVE INFORMATION

This classification series was created effective July 2, 2000 as a result of the IS Technical Survey and announced in Bulletin CLR/SC-115 to describe positions performing technical network cable duties which were previously classified as Electronics Technicians.

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