

FIBER OPTICS TECHNICIAN

PURPOSE AND NATURE OF WORK

Positions perform construction, repair and maintenance of the communication system, as well as analyzing reports of problems and troubleshooting system components from the head end building to and including customer premise equipment and internal wiring. Work is technical in nature, requiring specialized training and the use of sophisticated instruments, is performed with considerable independence at remote locations or after usual working hours, and is assigned by, and subject to inspection by, the Fiber Optics Foreman.

ILLUSTRATIVE EXAMPLES OF WORK (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Interprets work orders, plans, drawings and specifications for fiber optic lines, splices, communications equipment. Installs fiber and troubleshoots fiber cable and communications equipment in compliance with applicable standards, codes, and regulations. Performs maintenance, construction and service of all communication system and customer premise equipment and wiring as needed. Proficient use of test equipment such as Optical Light Meters, T1/T3 BERT test set and OTDR. Tests and calibrates fiber optic equipment, connections, optical transport equipment and associated direct current power supplies.

Performs related work as required.

NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS

Knowledge of the layout, location and characteristics of the LUS communications system.

Knowledge of construction standards, specifications and regulations affecting fiber optic projects.

Knowledge of application, operating characteristics, installation and testing of DS3, OC-3, OC-12, OC-48 and DWDM equipment.

Ability to install, replace and troubleshoot SONET equipment as well as remote circuits.

Ability to interpret optical circuit plans and specifications, to use computers as required by assignment.

Ability to form and maintain good working relationships with staff, elected officials, optic system users and general public.

DESIRABLE TRAINING AND EXPERIENCE

Completion of vocational technical school in electronics, telecommunications or a related field with experience in the construction and maintenance of fiber optic communications systems.