Broadband Installer (Level 2)

47-451-456 Fiber Service 2   Credits: 3

This course will introduce the students to industry specifications and practices for understanding fiber optic communication systems. Topics covered include fiber optic design, installation, test and maintenance for multimode and singlemode networks. This class will benefit those with little or no fiber experience.

47-451-457   Cable Installation   Credits: 3

 The student will design and install network cabling. The focus will be to understand voice and data networking. The basic cable installer will be able to build and administrate the physical layer of network infrastructure and gain a deeper understanding of the networking devices that this layer interconnects.

10-150-139   IT Essentials & Security   Credits: 3

The IT Essentials (ITE) course introduces students to the fundamentals of computer hardware and software, mobile devices, security and networking concepts, and the responsibilities of an IT professional. The latest release includes mobile devices, Linux, and client side virtualization, as well as expanded information about Microsoft Windows operating systems, security, networking, and troubleshooting. This course covers materials on the Comptia A+ certification exam.

47-451-463 Fiber Optic Design   Credits: 2

Fiber optic OSP design refers to the specialized processes leading to a successful installation and operation of a fiber optic network. It includes determining the type of communication system(s) which will be carried over the network, the geographic layout (premises, outside plant), the transmission equipment required and the fiber network over which it will operate. Design considerations include requirements for permits, easements, permissions and inspections.