Foundational Courses

Foundational

TETC 1005 Telecommunications Apprentice I-A **90 Clock-Hours**

This course covers semester 1 of first-year instruction. Topics include an introduction to apprenticeships and job expectations as well as first aid and electrical theory.

Objectives
· Understand trade tools and their safe usage
· Understand trade history

TETC 1015 Telecommunications Apprentice I-B **90 Clock-Hours**

This course covers semester 2 of first-year instruction. Topics include drawings and specifications, fiber optics, and limited power technologies.

Objectives
· Complete OSHA 30 Certification
· Understand cabling systems
· Understand fiber optic networks

TETC 1025 Telecommunications Apprentice II-A **90 Clock-Hours**

This course covers semester 1 of second-year instruction. Topics include paging systems, intrusion detection, access controls, and continued electrical theory.

Objectives
· Understand electronic access controls
· Solve circuit calculations for two-wire systems

TETC 1035 Telecommunications Apprentice II-B **90 Clock-Hours**

This course covers semester 2 of second-year instruction. Topics include fire alarm systems, network technologies, grounding and bonding, and code.

Objectives
· Understand grounding and bonding
· Understand fire alarm systems

TETC 1045 Telecommunications Apprentice III-A **90 Clock-Hours**

This course covers semester 1 of third-year instruction. Topics include semiconductors, code standards and practices, and leadership skills.

Objectives
· Understand semiconductor and photovoltaic systems
· Understand electric vehicle charging systems

TETC 1055 Telecommunications Apprentice III-B **90 Clock-Hours**

This course covers semester 2 of third-year instruction. Topics include building automation, smart home technologies, and media technologies.

Objectives
· Understand smart home infrastructure
· Understand automated building systems