Utah System of Higher Education
Lineman Pre-Apprenticeship
FY2027 / 11 Credits (330 Clock-Hours)

Foundational Courses

Lineman Pre-Apprenticeship

TETX 1010 Electrical Fundamentals and Safety **2 Credits / 60 Clock-Hours**

This course provides foundational knowledge of electricity, covering both direct current (DC) and alternating current (AC) theories. Students will gain practical skills in electrical safety, rigging, and hot work procedures. Additionally, a field trip to a substation will provide hands-on
exposure to power distribution systems.

Objectives:
• Explain fundamental electrical concepts, including voltage, current, and resistance
• Apply Ohm's Law and basic circuit calculations
• Differentiate between DC and AC power, analyzing waveforms, frequency, and impedance
• Demonstrate safe handling and usage of hot sticks for live electrical work
• Identify key components of a substation and understand power distribution
• Perform first aid and CPR procedures for workplace safety
• Demonstrate understanding of grounding

TETX 1015 Utility Field Operations **2 Credits / 60 Clock-Hours**

This course focuses on the physical skills required for utility work, including pole climbing, rigging, and operating aerial devices. Students will develop proficiency in climbing and working at heights, handling loads safely, and maneuvering utility vehicles.

Objectives:
• Demonstrate proper climbing techniques and safety procedures
• Use rigging hardware and apply load control methods effectively
• Operate bucket trucks and aerial devices safely
• Perform pre-operation vehicle inspections and safety checks
• Work confidently at heights using industry-standard techniques

TECD 1100 Commercial Driver's License - Class A **6 Credits / 180 Clock-Hours**

The Commercial Drivers' License - Class A Course prepares students in classroom theory, backing skills, and entry-level driving skills including behind the wheel range and public road practice.
Students demonstrate proficiency and competence in accordance with Federal/ State regulations, and college requirements:

Objective:
● Demonstrate basic truck operating procedures.
● Demonstrate safe operating procedures.
● Learn and practice advanced operating procedures.
● Practice vehicle inspections (pre/post-trip).
● Review non-driving activities.

TECD 1205 Driving Techniques **1 Credit / 30 Clock-Hours**

This course provides instruction on advanced driving situations through behind-the-wheel and simulator technology training.

Objectives:
• Exhibit safe operation of loaded and/or empty semi-truck and trailer on local area/industry specific driving challenges.
• Display competency with mountainous roads, ability to drive in extreme driving situations, nighttime driving, skid recovery, emergency situations, safe handling, road hazard perception, and distracted drivers.