

Powerline Workers Apprenticeship Program

Class 59 – Adel

YEAR ONE – *February 28, 2020*

Begins 6 months before Rigging & Climbing Class

Review/Study before Rigging & Climbing Class:

Chapters 1-13 of The Lineman's and Cableman's Handbook 13th Edition &

Chapter 46 OSHA 1910.269 (a) (c) (e) (*in the back of the handbook*)

APP A Safety Manual 16th Edition Section-507

NESC 2017 Section 41

Hands-On – August 31 - September 4, 2020

Rigging & Climbing Class

“APP A Pole Climbing Safety and Rescue” video

“APP A Bucket Truck Safe Operation and Rescue” video

Pole-climbing – equipment inspection, gaff sharpening, boxer-stance, rhythm-climbing, circling, positioning, safetying/unsafetying

Rigging – hanging cross-arm, singles & doubles

Knots - proper application & tying test

Wire Ties – perform & tie-wire

Hoist operations – nylon strap & chain

Rescue techniques – Pole-top & Bucket

Introduction to transformers

Review NESC-2017 – Sections 41, 42, 44

Review APP A Safety Manual – Sections 507

Test on Chapters 1-13 of The Lineman's and Cableman's Handbook &

Chapter 46 OSHA 1910.269 (a) (c) (e)

APP A Safety Manual 16th Edition Section-507

NESC 2017 Section 41

At-home

Study & Test on Chapters 1-6 of The Guidebook for Linemen and Cablemen

Tests are due back February 28, 2021

(6 months after the Rigging & Climbing Class).

****Year One Ends****

YEAR TWO – *March 1, 2021*

Begins 6 months before Distribution System Construction Class

Review/Study before Distribution System Construction Class:

Chapters 14-31 of The Lineman's and Cableman's Handbook &

Chapter 46 OSHA 1910.269 (g) (i) (l) (m) (n) (p) (t) (w) (*in the back of the handbook*)

APP A Safety Manual Section-507

NESC 2017 Section 41

Hands-On – August 2021

Distribution System Construction Class

Review NESC-2017 – Sections 41, 42, 44

Review APPA Safety Manual – Sections 507, 509

Pole-line construction

Powerline rigging

Pulling/Sagging conductor

Transformer installation and change-out

Underground terminations – elbow, splice, terminator

Personal protective grounding – bracket, equal-potential

Pole change-outs – de-energized, energized (simulated)

Trouble-calls – real world situations

Test on Chapters 14-31 of The Lineman's and Cableman's Handbook &

Chapter 46 OSHA 1910.269 (g) (i) (l) (m) (n) (p) (t) (w)

APP A Safety Manual Section-507

NESC 2017 Section 41

At-home

Study & Test on Chapters 7-13 of The Guidebook for Linemen and Cablemen

Tests are due back February 2022

(6 months after the Distribution System Construction Class).

****Year Two Ends****

YEAR THREE – *March 2022*

Begins 6 months before Distribution Operations Class

Review/Study *before Distribution Operations Class:*

Chapters 32-49 of The Lineman's and Cableman's Handbook

Distribution Transformer Handbook 5th Edition

Hands-On – August 2022

Distribution Operations Class

Hot-Work – pole change-outs, wire transfer, rigging, proper cover-up procedures

Underground – system design, operations, troubleshooting, power-restoration

Transformers – theory, single-phase, three-phase connections

Distribution Switching – breakers, regulators, tying circuits

Trouble-calls – real world situations

Line-coordination

Sub-station overview

Test on Chapters 32-49 of *The Lineman's and Cableman's Handbook*

Distribution Transformer Handbook

At-home

Study & Test on Chapters 14-21 of *The Guidebook for Linemen and Cablemen*

*Tests are due back **January 2023***

(5 months after the Distribution Operations Class – 1 month before graduation).

Year Three Ends with Graduation

February 2023