

## **SECTION C**

### **APPRENTICE LINEMAN II (SECOND 2000 HOURS)**

#### **OVERVIEW OF TRAINING LEVEL**

##### **Goal Of Second 2000 Hours**

The goal of the second 2000 hours is for you to make your first planned contacts with energized secondary lines. You will receive progressively more challenging assignments toward achieving the skills and knowledge necessary for a Lineman.

##### **Your Working Conditions**

You will continue to climb on a regular basis in a learning situation but still only with another qualified Lineman.

You will do some work on secondary voltages under the close supervision of a qualified Lineman, but the major part of your work will be on cold construction work.

If you are used for any work off your home system, you shall not be permitted to climb energized poles or structures and shall only perform Lineman I (Groundman) responsibilities.

##### **Supervisor**

You will work under the direction of the Crew Leader of the crew to which you are assigned for work and training activities. Your Crew Leader is responsible for your personal safety and your training activities.

##### **Length Of Training**

You will remain in the Lineman II classification for twelve months. (Exception: Credit for work hours could possibly be granted based on prior work experience.)

##### **How You Will Progress**

At the end of the twelve-month period, the superintendent will decide if you will be advanced to the next training level—Apprentice Lineman III. Before advancement, you will demonstrate that you have developed the skills and acquired the knowledge expected of an Apprentice Lineman II.

# OVERVIEW OF WHAT YOU WILL LEARN

## **Materials And Equipment**

You will continue to develop skills in the handling of safety equipment and the various materials used in line construction.

## **Safety Practices And Training**

Your safety training will include techniques of working on hot lines and continuing practice in:

- Pole top/bucket rescue
- Emergency use of radio
- Use of personal protective equipment
- Proper grounding of single-and three-phase lines (both overhead and underground)

## **Electrical Theory**

You will gain basic working knowledge of the following:

- Feeds throughout a district and the directions in which each section can be fed
- Theory relating to low voltage connections
- Distribution substations
- Underground distribution systems
- Two-way feeds on an entire system

## **Records, Reports, And Related**

You will gain additional knowledge and skill in understanding and using the information from previous training levels. In addition, you will learn the most important provisions of construction specifications for:

- Single-phase line construction
- Three-phase line construction
- Maintenance during this training period

**JOB COMPETENCY/DEMONSTRATION FORM  
(Second 2000 Hours)**

_____ (Name of apprentice) is competent in or has demonstrated the ability to, or understanding of:	Approving supervisor's signature and date
Inspect, set up, and operate a line truck	
Select proper tension sleeves and tools to splice conductors	
Check voltage at member's meter base	
At a designated pole, identify the various circuits or other installations such as telephone wire and cables	
State the proper ground clearance for wires over a highway, bodies of water, driveway or railroad crossings	
Install a member's meter and record the Information	
Install personal protective grounds on a line that has been de-energized (both overhead and underground)	
Frame a pole and identify the installation that is to be made on it	
Use hand signals for loading or unloading poles on or from a trailer	
Fill out an injury report	
Place lights or flags on a trailer when hauling poles	
Identify types of single-phase transformers (conventional, CSP or pad mount)	
Use of an amp meter	
Identify primary voltages on distribution circuit	
Safely handle a capacitor	
Adult CPR (re-certified)	
Safety Manual procedures	
REA Specifications (overhead and underground)	
Chain saw safety	
Frame the following poles: 12.5/7.2 kv Two-phase, Single Primary Support 12.5/7.2 kv Two-phase, Double Primary Support 12.5/7.2 kv Three-phase, Single Primary Support 12.5/7.2 kv Three-phase, Double Primary Support, Large Conductors 12.5/7.5 kv Three-phase, Vertical Construction 12.5/7.5 kv Three-phase, Dead End (Single)	
Properly set up warning signs when working beside a highway	
Install wrap lock ties	
Tie-in poles using tie-wire	
Sag primary wire off the pole	
Hang transformers off the pole	
Use and inspect all hot line tools	
Install armor rods	