



Apprentice Name: _____

Step 6 - Apprentice Substation Technician Job Competency / Demonstration Form

| COMPETENCIES/SKILLS | | RATING |
|---------------------|--|--------|
| #1 | Explain how to test a capacitor unit prior to installation. | |
| #2 | For a substation capacitor bank, explain how to safely put it in service. | |
| #3 | For a substation capacitor bank, explain how to safely take it out of service. | |
| #4 | For a substation capacitor bank, explain how to perform periodic inspections. | |
| #5 | What PPE should be used when working with capacitors? | |
| #6 | What types of lightning/surge protection are used in a typical substation? | |
| #7 | Why are lightning arresters used? | |
| #8 | What inspection methods are used for checking lightning arresters? | |
| #9 | Describe how you size a station lightning arrester? | |
| #10 | Why are solid grounds important for lightning arresters? | |
| #11 | What PPE should be used when working with lightning arresters? | |
| #12 | Pick one of your utility's substations: locate the basic wiring diagrams for relay control systems and explain what relays are used and trace the wiring diagrams. | |
| #13 | Why is wiring labeling so important? | |
| #14 | How often should control wiring be checked? | |
| #15 | What PPE should be used when working with control wiring? | |
| #16 | Ability to follow directions. | |
| #17 | Positive attitude toward work and others. | |

RATINGS:

Exceeds Expectations

Meets Expectations

Below Expectations

COMMENTS/REMARKS

I find this apprentice competent in the skills listed above and ready to advance to the next level.

Supervisor's signature: _____ Date: _____