

Step 3 - Apprentice Substation Technician Job Competency / Demonstration Form

	COMPETENCIES/SKILLS	RATING
#1	Explain the routine tests that should be performed on a new power transformer before putting the unit in service.	
#2	Explain the tests used to determine if the moisture level inside transformer's solid insulation systems is within accepted limits, or vacuum drying should be performed.	
#3	Explain how to check moisture level in a power transformer using a dielectric oil test set.	
#4	Explain how to process transformer oil using filter press equipment.	
#5	Explain the internal parts found in a voltage regulator and describe their function.	
#6	Explain the basic settings on a control panel for a voltage regulator.	
#7	Explain how to put a voltage regulator in service and how to safely take it out of service	
#8	Explain how to make sure a regulator is in " <u>neutral"</u> position.	
#9	Explain how to perform an inspection on a voltage regulator.	
#10	Explain the difference between bracket grounding and equipotential grounding.	
#11	On a de-energized system and under supervision demonstrate installation and removal of personal protective grounds.	
#12	Demonstrate how to correctly inspect personal protective grounds.	
#13	Explain step and touch potential.	
#14	What test should be performed on current transformers during acceptance testing?	
#15	Explain how to demagnetize a current transformer.	
#16	Explain/demonstrate how to read the nameplate data on a current transformer.	
#17	Demonstrate how to inspect and clean a live-line switch stick.	
#18	On a de-energized substation and under supervision: open and close a group operated air break switch.	
#19	On a de-energized substation and under supervision: open and close regulator switches.	
#20	On a de-energized substation and under supervision: open and close feeder recloser source, load and transfer bus disconnect switches.	
#21	Ability to follow directions.	
#22	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: _____