



Apprentice Name: \_\_\_\_\_

## Step 4 - Apprentice System Operator Job Competency / Demonstration Form

COMPETENCIES/SKILLS		RATING		
		Please circle		
#1	List the four common devices that perform the basic function of a circuit breaker.	1	2	3
#2	Where is information about and ratings of a circuit breaker found?	1	2	3
#3	Name the four key design parameters of a circuit breaker.	1	2	3
#4	Locate a circuit breaker on a single line diagram.	1	2	3
#5	Describe the basic applications of circuit breakers.	1	2	3
#6	What are the four main types of circuit breakers? Discuss your utilities use of each.	1	2	3
#7	Explain the fundamental job of a station transformer.	1	2	3
#8	What is the difference between an LTC and voltage regulator?	1	2	3
#9	Describe the two applications of a voltage regulator in a substation. What does your utility do?	1	2	3
#10	Where can pertinent information about a transformer be found?	1	2	3
#11	Review a nameplate from one of your utilities transformers and discuss it's information. i.e. voltages, weight, oil cooling, tap settings, etc.	1	2	3
#12	Explain the different methods of cooling the oil in a transformer.	1	2	3
#13	Discuss the types of oil preservation systems your utility has.	1	2	3
#14	Explain the purpose of a surge arrester.	1	2	3
#15	Locate surge arrestors on one of your utility's single line diagrams and describe what they are protecting.	1	2	3
#16	Explain what the term "BIL" means.	1	2	3
#17	Explain the purpose of a capacitor.	1	2	3
#18	Discuss whether your utility has capacitors and their use if so.	1	2	3
#19	Ability to follow directions.	1	2	3
#20	Positive attitude toward work and others.	1	2	3

### RATINGS:

1. Exceeds Expectations
2. Meets Expectations
3. Needs Improvement

COMMENTS/REMARKS
<p>I find this apprentice competent in the skills listed above and ready to advance to the next level.</p> <p>Supervisor's signature: _____ Date: _____</p>