



Apprentice Name: _____

Co-Op/Utility Name: _____

Step 3 - Apprentice Meter Technician Job Competency / Demonstration Form

| COMPETENCIES/SKILLS | | RATING | | | |
|---------------------|---|---------------|---|---|-----|
| | | Please circle | | | |
| #1 | What two values do phasors represent? | 1 | 2 | 3 | N/A |
| #2 | A phasor with an open arrow represents? | 1 | 2 | 3 | N/A |
| #3 | A phasor with a solid arrow represents? | 1 | 2 | 3 | N/A |
| #4 | Inductance affects what in a circuit? | 1 | 2 | 3 | N/A |
| #5 | Capacitance affects what in a circuit? | 1 | 2 | 3 | N/A |
| #6 | What causes inductive reactance in a circuit? | 1 | 2 | 3 | N/A |
| #7 | What causes capacitive reactance in a circuit? | 1 | 2 | 3 | N/A |
| #8 | What is Power factor? | 1 | 2 | 3 | N/A |
| #9 | What does the sine of an angle represent? | 1 | 2 | 3 | N/A |
| #10 | What does the cosine of an angle represent? | 1 | 2 | 3 | N/A |
| #11 | What does the tangent of an angle represent? | 1 | 2 | 3 | N/A |
| #12 | What is the Pythagorean Theorem? | 1 | 2 | 3 | N/A |
| #13 | What is Active Power and its unit of measure? | 1 | 2 | 3 | N/A |
| #14 | What is Apparent Power and its unit of measure? | 1 | 2 | 3 | N/A |
| #15 | What is Reactive Power and its unit of measure? | 1 | 2 | 3 | N/A |
| #16 | Draw how the coils are connected in a "WYE" system. | 1 | 2 | 3 | N/A |
| #17 | Draw how the coils are connected in a "Delta" system. | 1 | 2 | 3 | N/A |
| #18 | Describe the comparison method of meter testing. | 1 | 2 | 3 | N/A |
| #19 | What meter test combines all elements in a polyphase meter? | 1 | 2 | 3 | N/A |
| #20 | What is the initial test of a meter called? | 1 | 2 | 3 | N/A |
| #21 | What is the final test of a meter called? | 1 | 2 | 3 | N/A |
| #22 | How do you perform a creep test on a meter? | 1 | 2 | 3 | N/A |
| #23 | Explain the AEP test barcode and what information is contained in it. | 1 | 2 | 3 | N/A |
| #24 | Wire a single-phase transformer rater meter installation. | 1 | 2 | 3 | N/A |
| #25 | Ability to work with others. | 1 | 2 | 3 | N/A |
| #26 | Ability to follow directions. | 1 | 2 | 3 | N/A |
| #27 | Positive attitude toward work and others. | 1 | 2 | 3 | N/A |
| #28 | Review MTAP #3 Curriculum practice questions. | 1 | 2 | 3 | N/A |

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> |