

Name: _____ Date: _____ Level: _____

Electrical Testing Equipment Performance Rubrics

(NOCTI Remediation)



Program Of Study Task #		Grade Percentage	Date
1101	Identify and safely use a multi-meter.		
1102	Identify and safely use a continuity tester.		
1103	Identify and safely use a plug-in circuit tester.		
1104	Identify and safely use a clamp-on ammeter.		
1105	Identify and safely use a megger (insulation tester).		
1106	Identify and safely use a circuit tracer.		

Comments: _____

Name: _____ Date: _____ Level: _____ POS Task#1101-1102

Multi Meter & Continuity Tester Rubric

Description of task	Points Available	Points Earned
Student wore proper PPE according to OSHA guidelines. (Correct/Incorrect)	10	
Student tested meter leads correctly. (Correct/Incorrect)	5	
Student chose correct scales for readings. (-5 points per incorrect scale)	20	
Student was able measure a resistance reading to with 5% of actual value. (-1 point per 5% incorrect reading)	5	
Student was able to perform a continuity reading to identify unlabeled conductors in a conduit. (Correct/Incorrect)	5	
Student was able to perform a continuity reading on an incandescent lamp. (Correct/Incorrect)	5	
Student was able to perform a continuity reading on a circuit breaker. (Correct/Incorrect)	5	
Student was able to perform a continuity reading on contacts in a motor control starter. (Correct/Incorrect)	5	
Student was able to take a 208 volt, three phase voltage reading to within 2 volts of actual. (-1 point per incorrect reading) Reading L1-N	5	
Student was able to take a 208 volt, three phase voltage reading to within 2 volts of actual. (-1 point per incorrect reading) Reading L1-N	5	
Student was able to take a 208 volt, three phase voltage reading to within 2 volts of actual. (-1 point per incorrect reading) Reading L1-N	5	
Student was able to explain how to read amperage using the multimeter. (Correct/Incorrect)	10	
Student was able to identify and explain a "high Leg" situation. (Correct/Incorrect)	10	
Student was able to explain the difference between a digital meter and an analog meter. (Correct/Incorrect)	10	
Final Score	Points Earned Out of 150 Total	
	Grade Percentage	

Comments: _____

Student Signature: _____ Instructor Signature: _____ Date: _____

Name: _____ Date: _____ Level: _____ POS Task#1103

Plug-In Circuit Tester Rubric

Description of task	Points Available	Points Earned
Student wore proper PPE according to OSHA guidelines. (Correct/Incorrect)	10	
Student was able to explain the operation of a plug in circuit tester. (Correct/Incorrect)	5	
Student was able to identify an open neutral situation. (Correct/Incorrect)	5	
Student was able identify an open ground situation. (Correct/Incorrect)	5	
Student was able to identify a "hot" and "neutral" reversed situation. (Correct/Incorrect)	5	

Student was able to identify an open "hot" situation. <i>(Correct/Incorrect)</i>	5	
Student was able to identify a "hot" and "ground" reversed situation. <i>(Correct/Incorrect)</i>	5	
Student was able to identify a correct operation situation. <i>(Correct/Incorrect)</i>	5	
Student was able to test a GFCI circuit. <i>(Correct/Incorrect)</i>	5	
Student was able to explain the purpose of a GFCI circuit. <i>(Correct/Incorrect)</i>	5	
Student was able to locate the 10 locations GFCI's are required per the National Electrical Code. <i>(-5 point for every area not identified)</i>	45	
Final Score	Points Earned Out of 100 Total	
	Grade Percentage	

Comments: _____

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Instructor Signature: _____

Date: _____

Name: _____ Date: _____ Level: _____ POS Task#1104

Clamp-On Ammeter Tester Rubric

<i>Description of task</i>	<i>Points Available</i>	<i>Points Earned</i>
Student wore proper PPE according to OSHA guidelines. <i>(Correct/Incorrect)</i>	10	
Student was able to explain the operation of a clamp-on ammeter tester. <i>(Correct/Incorrect)</i>	10	
The student was able to select the correct range for the tests. <i>(-5 points for each incorrect choice)</i>	10	

The student was able to read the amperage of a 120 volt, single phase circuit to within 5% of the actual. <i>(-1 point for each percentage of incorrect value)</i>	10	
The student was able to read the amperage of a 208 volt, 3 phase circuit to within 5% of the actual. <i>(-1 point for each percentage of incorrect value)</i>	10	
The student was able to explain why a 3 phase induction motor should have balanced amperage on all three lines. <i>(Correct/Incorrect)</i>	10	
The student was able to operate the peak/data hold button correctly. <i>(Correct/Incorrect)</i>	10	
The student was able to operate the temperature setting of the clamp-on ammeter. <i>(Correct/Incorrect)</i>	10	
The student was able to operate the zero button correctly. <i>(Correct/Incorrect)</i>	10	
The student was able to explain a single phase condition in a three phase circuit. <i>(Correct/Incorrect)</i>	10	
Final Score	Points Earned Out of Total 100	
	Grade Percentage	

Comments: _____

Student Signature: _____

Instructor Signature: _____

Date: _____

Name: _____ Date: _____ Level: _____ POS Task#1105

Megger (insulation tester) Tester Rubric

Description of task	Points Available	Points Earned
Student wore proper PPE according to OSHA guidelines. <i>(Correct/Incorrect)</i>	10	
Student was able to explain the operation of a megger (Insulation tester).	10	

<i>(Correct/Incorrect)</i>		
Student was able to correctly test the megger leads to insure proper operation. <i>(Correct/Incorrect)</i>	10	
Student was able to set up the megger to test a three phase AC motor. <i>(Correct/Incorrect)</i>	10	
Student was able to read the scale on the megger to within 2 ohms of the actual. <i>(-1 point for each ohm of incorrect value)</i>	10	
Student was able to determine if the motor was safe to operate. <i>(Correct/Incorrect)</i>	10	
Student was able to use megger to check insulation of wires in a metal raceway. <i>(Correct/Incorrect)</i>	10	
Student was able to explain the scales and symbols located on the analog meter. <i>(-1 point for each item incorrect)</i>	10	
Student was able to use the digital megger to evaluate the status of a three phase AC motor. <i>(Correct/Incorrect)</i>	10	
Student was able to use a digital megger to evaluate the insulation of wires in a raceway. <i>(Correct/Incorrect)</i>	10	
Final Score	Points Earned Out of Total 100	
	Grade Percentage	

Comments: _____

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Name: _____ Date: _____ Level: _____ POS Task#1106

Circuit Tracer Tester Rubric

Description of task	Points Available	Points Earned
Student wore proper PPE according to OSHA guidelines. <i>(Correct/Incorrect)</i>	10	
Student was able to explain the operation of circuit tracer tester.	10	

<i>(Correct/Incorrect)</i>		
Student was able to identify the transmitter. <i>(Correct/Incorrect)</i>	5	
Student was able to identify the tracer. <i>(Correct/Incorrect)</i>	5	
Student was able to correctly set up unit to trace circuit. <i>(Correct/Incorrect)</i>	5	
Student was able to correctly trace and identify a 120 volt circuit in a panel. <i>(Correct/Incorrect)</i>	5	
Student was able to explain how to identify a short circuit using the circuit tracer. <i>(Correct/Incorrect)</i>	5	
Student was able to explain how to identify an open circuit using the circuit tracer. <i>(Correct/Incorrect)</i>	5	
Final Score	Points Earned Out of Total 50	
	Grade Percentage	

Comments: _____

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