10-620-1 Electro-Mechanical TSA Rubric

Directions

This summative assessment scoring guide will be used to determine if you have met the program outcomes at the end of the program. To meet the requirements on the scoring guide, you will be asked to draw upon the skills and concepts that have been developed throughout the program and are necessary for successful employment in your field. Your instructor will provide detailed instructions on this rubric will be used. After your instructor completes this scoring guide, you will receive feedback on your performance including your areas of accomplishment and areas that need improvement.

Program Outcomes	Rating Scale	
1. Perform work safely 2. Troubleshoot electrical and mechanical systems and devices 3. Repair electrical and mechanical systems 4. Communicate Technical Information 5. Setup, Install, and Integrate electrical and mechanical systems and devices	MET	Performs skill relatively independently at entry level. Proficient; sequence of movements and communication are fluid, even and intertwined; economical use of movements; equipment and conversation; expedient or minimal time frame; student appears confident and only occasionally expends excess energy.
	NOT MET	Does not perform skill relatively independently at entry level.

Scoring Standard

You must achieve a rating of MET on all criteria for each program outcome to demonstrate competence (passing). A rating of NOT MET on any criterion results in a NOT MET score for that program outcome and for the TSA Assessment.

Scoring Guide		
Criteria	**Ratings**	
1. Perform work safely	**Met**	**Not Met**
a. Follow Lock-out Tag-out safety procedures and practices to ensure proper start-up and shutdown of equipment	☐	☐
b. Follow Personal Protective Equipment requirements	☐	☐
c. Follow established safety policies and practices (e.g. OSHA, site specific)	☐	☐
2. Troubleshoot electrical and mechanical systems and devices	**Met**	**Not Met**
a. Verify proper operation or problem	☐	☐
b. Identify the cause of the problem: mechanical, electrical	☐	☐
c. Determine corrective action	☐	☐
d. tilize appropriate test equipment	☐	☐

Scoring Guide

Criteria	Ratings	
3. Repair electrical and mechanical systems	**Met**	**Not Met**
a. Utilize tools appropriate to the electromechanical field	☐	☐
b. Select replacement components	☐	☐
c. Configure replacement components	☐	☐
d. Install replacement components	☐	☐
e. Validate system performance	☐	☐
f. Perform preventative maintenance	☐	☐
4. Communicate Technical Information	**Met**	**Not Met**
a. Interpret documentation of electro-mechanical devices and systems	☐	☐
b. Use field specific technical terminology in speaking and writing	☐	☐
c. Create electro-mechanical diagrams	☐	☐
d. Document problems and solutions	☐	☐
e. Interpret electro-mechanical diagrams	☐	☐
5. Set up, Install, and Integrate electrical and mechanical systems and devices	**Met**	**Not Met**
a. Identify required communication protocols	☐	☐
b. Configure electronic equipment for data communication compatibility	☐	☐
c. Configure sensors, controls and actuators for system compatibility	☐	☐
d. Install required communications infrastructure	☐	☐
e. Verify communications between systems and devices	☐	☐
f. Install, remove and relocate equipment and system	☐	☐

Overall Score

TSA Assessment Score:	PASS	FAIL
Note: Each program outcome and the over-all requirements must earn a rating of "Met" to achieve an over-all score of "Pass" on the assessment.		
Student Name:	ID #:	
Evaluator Signature:	Date:	