

PLC123 LAB 1.1: LOCK OUT / TAG OUT AND ELECTRICAL PANELS

Student Name: _____

Student ID: _____

LAB OUTCOMES:

Upon completion of this lab procedure, the student should be able to:

1. Demonstrate how to do a Lockout/Tagout procedure
2. Open an electrical panel with the disconnect off
3. Open an electrical panel with the disconnect on
4. Measure 208VAC at the top side of a disconnect
5. Check fuses in a de-energized panel
6. Check fuses in an energized panel

LAB PROCESS:

Work with the instructor to identify a control panel to work within to do the lockout/tagout and basic troubleshooting operation.

Part 1

1. Demonstrate how to lockout and tagout an electrical panel.
2. Interpret the shock and arc flash label for an electrical panel.
3. Demonstrate the use of PPE equipment in the electrical lab. This includes gloves, arc hood, vest, etc...

Describe the function of each piece of PPE.

4. Explain the markings and settings on the DMM.

What class meter is needed for indoor and outdoor use?

5. Open an electrical panel that has the disconnect off.

Describe the process needed to access the electrical components.

6. On a panel with the disconnect off, test for a bad fuse.

7. Open a live panel that has the disconnect on.

Describe the process needed to access the electrical components.

8. On a panel that has the disconnect on, test for a bad fuse.

Questions

1. Describe the ratings for industrial grade fuses.

2. Describe the rules of Arc Flash.

The outcomes of this exercise (listed on page 1) specifies the skills that the Student must demonstrate to the Instructor. Once the Instructor is satisfied with the demonstration of Knowledge & Skills by the individual student, they will sign this document (for the student), then enter a 100% into the Hands-On Lab grade in Sakai.

I verify that this student has completed all of the requirements of this Hands-On Assessment:

Student Name: _____

Faculty Signature: _____ Date: _____

DOL DISCLAIMER:

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