Lab #06 PLC & HMI Distributed I/O and AB documentation JD Jones

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Point Value = 100 points

In this lab you will take the Distributed I/O and create a sealed circuit.

1st establish connection via RS Linx

2nd create a new PLC program and add the Distributed I/O to your PLC I/O configuration at the PLC panel.

3rd Move the Distributed I/O panel to the “A” frame and wire it up.

Minimum requirements

A) Power the Distributed I/O

B) At least 2 Push Buttons

C) At least 1 light

4th Program a sealed circuit on the PLC and use the Distributed I/O you wired up.

5th Most important of all. Have fun. This is really cool stuff. I get excited everytime I see it.

For the AB documentation portion of the lab. Print and attach the few pages showing how to Assign an IP Address to the Controller over a USB Connection for the Compact Logix 1769-L18ERM PLC.

Points for

1. Establishing RS Linx connection to Distributed I/O without help. **10 points**
2. Establishing the Distributed I/O on the PLC I/O config. **20 points**
3. Wiring up the Distributed I/O on the “A” frame. **20 points**
   1. If you need help 10 points deducted.
   2. If the instructor will not let you power up. 10 points deducted
4. Sealed circuit. **20 points**
   1. If you need help on what a sealed circuit is then I failed as an instructor!!! Deduct 30 points yep this is not a typo!
5. Print your PLC program. **10 points**
6. AB documentation attachment. **20 points**

INSTRUCTOR’S INITIAL\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NOTE: Next week I want you to use what you have learned so far and have fun. Start thinking about what you want to do. The lab will require the PLC, Distrubuted I/O and something with the “A” frame. You have air cylinders, 3 phase motors, VFD’s, lights, sensors, DC motor and other items at your disposal.