Motor Controls Lab #16 Servo Drive JD Jones

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Points 100

In this lab you will be programming a Servo motor drive. You will use the PLC trainers for this lab.

Tasks to complete:

A) Establish communication to the servo drive.

B) Write a simple program in the PLC to control the servo drive.

C) Use the Motion commands to perform the actions.

a. When you are at the instruction you can press F1 for the help screen. It will tell you what you need to put into each instruction element.

b. MSO Motion On

c. MSF Motion Off

d. MAFR Motion Axis Fault Reset

e. MAM Motion Axis Move

f. MAJ Motion Axis Jog

D) Turn the motor on and off with a selector switch.

E) Move the motor 100 rotations when a push button is pressed at a speed of 35.

F) Move the motor 5 rotations when another push button is pressed at a speed of 5.

G) Adjust the accel and decel times for the motor.

H) Enjoy and have fun.

Points for

A) Establish motor communications 20 pts

B) Turn the motor on and off with the selector switch. 10 pts

C) 100 rotations. 20 pts

D) 5 rotations 20 pts

E) Adjust the Accel 10 pts

F) Adjust the Decel 10 pts

G) Safety glasses 10 pts

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