

STUDENT NAME: _____

DATE: _____

3-2 Lab 2 Motor Control Homework

HOMEWORK SHOULD BE COMPLETED AND RETURNED TO YOUR CLASSROOM INSTRUCTOR ON YOUR NEXT REGULAR SCHEDULED CLASS NIGHT TO AVOID ATTENDING THE NEXT MAKEUP LAB.

Complete all Homework questions utilizing your FUNDAMENTALS of MOTOR CONTROL text book

In the space below, complete the Motor Control circuit Ladder Diagram (*ID each component*). Ladder diagram should be based on the Sequence of Operations Below

Sequence of Operations:

- 1) When HOA-1 is in "Hand" Position and PB-1 is depressed and released, Motor Starter (*M1*) will start the Motor and Pilot Light PL-2 will illuminate.
- 2) When HOA-1 is in "AUTO" Position, On Delay Timing Relay (*TR-1*) will start Motor via (*M1*) after a 30 second delay and Pilot Light PL-2 will illuminate.
- 3) When depressed, PPO-1 will De-energize all components used in the control circuit.

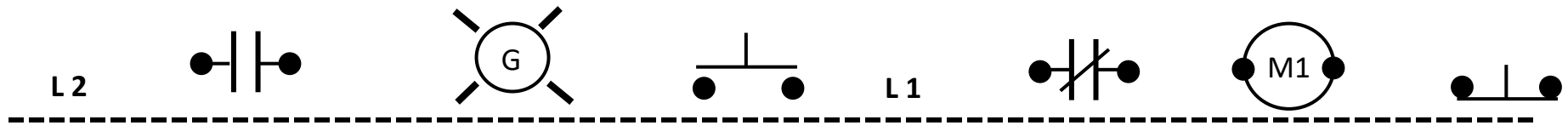
Student Name: _____

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3-2 Lab 2 Motor Control Worksheet

Use the symbols below to complete and label a Ladder Diagram for the lab task to be completed. Ladder Diagram is to be COMPLETED, and INSPECTED by instructor PRIOR to commencing task. Use back of sheet for task instructions and notes.

Exercise 1 Ladder Diagram



Exercise 2 Ladder Diagram

