Title: **Title** Job: 0

Course: Intro to Automation Unit: Manual Motor Control CLO: 2

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade \_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Objectives**

1. Student shall list, record, underline, state, define, arrange, name, relate, describe, tell, recall, memorize, recall, repeat, recognize, label, select, reproduce. *(knowledge)*
2. Student shall explain, describe, report, translate, express, summarize, identify, classify, discuss, restate, locate, compare, discuss, review, illustrate, tell, critique, estimate, reference, interpret, reiterate. *(comprehension)*
3. Student shall apply, sketch, perform, use, solve, respond, practice, construct, demonstrate, conduct, execute, complete, employ. *(application)*
4. Student shall analyze, inspect, test, distinguish, categorize, critique, differentiate, catalogue, diagnose, appraise, quantify, extrapolate, calculate, measure, theorize, experiment, relate, debate. *(analysis)*
5. Student shall develop, revise, compose, plan, formulate, collect, build, propose, construct, create, establish, prepare, design, integrate, devise, organize, modify, manage. *(synthesis)*
6. Student shall review, appraise, choose, justify, argue, conclude, assess, rate, compare, defend, score, evaluate, report, select, interpret, investigate, measure, support *(evaluation)*

**Assessment**

Students shall demonstrate a comprehension of the objectives listed above by scoring a minimum of 75% on this Job. Grading shall be based on the Manual Motor Control rubric.

**Materials**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Inputs | | | Outputs | | |
| Q | Input Device | Function | Q | Input Device | Function |
| 1 | Mushroom head PB | ESTOP | 1 | Green Pilot Light | RUNNING |
| 0 | 3P selector switch |  | 0 | Yellow Pilot Light |  |
| 0 | 2P selector switch |  | 1 | Red Pilot Light | STOPPED |
| 1 | NC Pushbutton | STOP | 0 | Blue Pilot Light |  |
| 1 | Dual Pushbutton | START | 1 | Eight-pin relay | Motor Control |
|  |  | | 0 | Eleven-pin relay |  |

**Instructions**

Design a .

Use the space on the opposite side of this page to design the circuit. Once complete, review the design with the instructor. After obtaining approval, wire the circuit. Ensure to label all wires with the appropriate wire numbers. Have the instructor review all wiring before energizing the circuit.

**Graphic**

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Discussed design \_\_\_\_\_\_\_\_ Checked wiring \_\_\_\_\_\_\_\_ Energized Test \_\_\_\_\_\_\_\_