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| **Intro to PLC**  **RUBRIC** | Student demonstrates a  **mastery** of the subject.  0 point deduction | Student demonstrates a  **proficiency** of the subject  2-4 point deduction | Student demonstrates an **understanding** of the subject  5-7 point deduction | Student **does not** demonstrate an **understanding** of the subject.  8-10 point deduction |
| Hand Drawing | * Is neatly written using a stencil. * Uses correct instructions/addresses drawn using a stencil. * Drawn using pencil. No visible changes. * Uses accurate symbols and descriptions on all program components. | * Is legible. * Uses correct hand-written instructions/addresses. * Drawn using pencil. Changes are made neatly. * Uses appropriate symbols and descriptions. | * Difficult to read. * Instructions/addresses are not 100% accurate. * Drawn using pencil, changes made drawing messy. * Most symbols and descriptions are accurate. | * Illegible. * Does not use correct instructions/addresses. * Drawn using pencil or pen with changes hard to follow or not understandable. * Symbols and/or descriptions are inaccurate or missing. |
| Program Design | * Student compose design on their own.\* * Design is succinct. * Meets problem instructions and may add additional enhancements. * Program design is very logical and easy to follow. * Demonstrates a mastery of understanding in the given subject. | * Student needed minor input during design.\* * Design could be simplified. * Meets problem instructions. * Program layout is logical and can be followed. * Demonstrates an adequate level of understanding in the given subject. | * Student’s needed some instructor help during design.\* * Design is cumbersome. * Meets most of the problem instructions. * Program layout is difficult to follow. * Demonstrates somewhat of an understanding in the given subject. | * Student needed considerable help during design.\* * Design is confusing or illogical. * Meets only a few of the problem instructions. * Cannot follow program design. * Does not demonstrate an understanding in the given subject. |
| PLC Program | * All proper components where used and in the appropriate locations. * All addresses were correctly assigned * All symbols and descriptions were assigned accurately. * Program contained extensive accurate comments. * Student followed design review sequence | * Proper components where used and in the appropriate locations. * Addresses were correctly assigned. * Symbols and descriptions were assigned accurately. * Program contained appropriate amount of comments | * Most of the components used where in the appropriate locations. * Most addresses were correctly assigned * Most of the symbols and descriptions were assigned accurately. * Program contained minimal comments. | * Components used where not in the appropriate locations. * Many addresses were incorrectly assigned. * Some to none of the symbols and descriptions were assigned accurately. * Program did not contain comments. * Student did not follow design review sequence |
| Wired Job | * Student wired circuit on their own.\* * Uses minimal components to meet problem instruction. * Has complete correct wire numbers easily viewable. * Appropriate wire colors and routed neatly. * Min # of wires and no more than two wires per terminal | * Student needed minor instructor input during wiring.\* * Meets all problem instructions. * Contains all necessary wiring to complete problem. * Has accurate wire numbers. * Appropriate wire colors routed somewhat neatly. * Max of two wires per terminal. | * Student’s needed some instructor help during wiring.\* * Meets some of the problem. * Includes some unnecessary, incorrect or omitted wires. * Missing or inaccurate wire #s. * One incorrect wire color or lacks neatness. * More than two wires per any terminal. | * Student needed considerable instructor help during wiring.\* * Does not meet problem instructions. * Has incorrect wiring. * Has little to no wire numbers. * Multiple incorrect wire colors and/or messy wiring. * More than two wires per terminal multiples instances. |

Student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Job/Hands On \_\_\_\_\_\_\_\_\_\_\_

\*Only applies to Hands On test. NOTE: Lock-Out violation shall result in a 5 to 20 point deduction based on severity. \_\_\_\_\_\_\_