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| Name |  | Station | |  | Date | |  | |
| Filename | Intro to PLC Job 25 *[name].*RSS | | Location | | U:\Electrical\*[firstname\_lastname]* | | | |
| Objective | | | | | | | | |
| You work at a welding facility. Your robotic welder runs four types of welds. The first weld takes 5 seconds. The second weld takes 8 seconds and the third weld takes 10 seconds and the fourth weld takes 16 seconds. First make a Start/Stop circuit using your pushbuttons. The top selector switch will distinguish between 5 and 8 seconds. The bottom selector switch will be used to determine if the time is to be multiplied by 1 or 2. The green light is on for the 5 second weld, the red light is on for the 8 second weld, the yellow light is on for the 10 second weld and the blue light is on for the 16 second weld. When a given weld is selected, the designated light shall be on solid. When the start button is pressed welding shall start and the designated light shall blink while the welding is occurring. Once the welding is complete, the designated light shall stay on solid. If the stop button is pressed at any time, the welding process shall stop. | | | | | | | | |
| Job Instructions | | | | | | | | |
| Before any programming, draw the proposed ladder diagram in the space below. Use references to the address locations of all components in your designed circuit. After completing your design below, have your instructor look over your design. Once the design is approved, you may start programming your ladder logic. | | | | | | | | |
| Grading Rubric | | | | | | | | |
| Classification | | | | | | Points | | Score |
| Hand drawing | | | | | | 20 | |  |
| Program Design | | | | | | 20 | |  |
| Program Operation | | | | | | 20 | |  |
| Program Labelling | | | | | | 20 | |  |
| Program Descriptions/Comments | | | | | | 20 | |  |

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