Northwest State
Community College

PLC 210 Hands-On Assessments: Module 1

Student Name: _____ N# _____ Date: _____

This hands-on assessment requires that each student successfully demonstrates each of these tasks to the instructor's satisfaction. There is no grade for this assessment.

Prior to taking this assessment, the student must pass (minimum of 80%) the Knowledge and Application Assessment.

The student cannot proceed to the HOA for the next module without completing this HOA

Note: Be specific in answering questions on the status of outputs.
    Saying only that an input condition is True / False is not a sufficient answer.
    Explain why the input condition is True / False

Download the project file HOA_Module_1.ACD to the CompactLogix demo.
Ensure all demo inputs are OFF / False.
Place processor in RUN mode

Check   #   Skills Task

_____   1.   Why is PL0 OFF?_____

            _____

            _____

            Is the LES instruction on Rung 2 True or False?_____

_____   2.   Why is PL1 OFF?_____

            _____

            _____

            Is the GRT instruction on Rung 3 True or False?_____

_____   3.   Why is PL2 OFF?_____

            _____

_____

Is the GEQ instruction on Rung 4 True or False?_____

Is the LEQ instruction on Rung 4 True or False?_____

_____ 4.   Why is PL3 ON?_____

_____

_____

_____ 5.   Why is PL4 OFF?_____

_____

_____

_____ 6.   Why is PL5 ON?_____

_____

_____

_____ 7.   Why is PL6 ON?_____

_____

_____

_____ 8.   Change the Style of the MEQ instruction tags to Binary

_____ 9.   Modify the Mask value to a number less than 10 that will make the
Instruction False.
What is the decimal number?_____

_____ 10. Modify the Mask value to a number greater than 10 that will make the Instruction True.
What is the decimal number?_____

_____ 11. Why is LIM_Tag1 False / OFF?_____

_____

_____

_____

_____ 12. Why is LIM_Tag2 True / ON?_____

_____

_____

_____

_____ 13. Why is PL7 OFF?_____

_____

_____

Turn SS4 on – to the right

_____ 14. How long is one cycle?_____
The time it takes Timer_1 to go from 0 to recycle back to 0.

_____ 15. How long is PL0 ON during a timing cycle?_____

How long is PL0 OFF during a timing cycle? _____

What causes PL0 to turn ON when SS4 is turned ON?_____

_____

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What causes PL0 to turn ON when SS4 is turned ON?_____

_____

_____ 16. How long is PL1 ON during a timing cycle?_____

How long is PL1 OFF during a timing cycle? _____

What causes PL1 to turn ON when SS4 is turned ON?_____
_____

What causes PL1 to turn ON when SS4 is turned ON?_____
_____

_____ 17. How long is PL2 ON during a timing cycle?_____

How long is PL2 OFF during a timing cycle? _____

What causes PL2 to turn ON when SS4 is turned ON?_____
_____

_____

What causes PL2 to turn ON when SS4 is turned ON?_____
_____

_____

_____ 18. How long is PL3 ON during a timing cycle?_____

How long is PL3 OFF during a timing cycle? _____

What causes PL3 to turn ON when SS4 is turned ON?_____
_____

What causes PL3 to turn ON when SS4 is turned ON?_____

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_____

_____ 19. How long is PL4 ON during a timing cycle?_____

How long is PL4 OFF during a timing cycle? _____

What causes PL4 to turn ON when SS4 is turned ON?_____
_____

What causes PL4 to turn ON when SS4 is turned ON?_____

_____

_____ 20. How long is PL5 ON during a timing cycle?_____

How long is PL5 OFF during a timing cycle? _____

What causes PL5 to turn ON when SS4 is turned ON?_____

_____

_____

What causes PL5 to turn ON when SS4 is turned ON?_____

_____

_____

_____ 21. How long is LIM_Tag1 ON during a timing cycle?_____

How long is LIM_Tag1 OFF during a timing cycle? _____

What causes LIM_Tag1 to turn ON when SS4 is turned ON?_____
_____

What causes LIM_Tag1 to turn ON when SS4 is turned ON?_____

_____

_____ 22. How long is LIM_Tag2 ON during a timing cycle?_____

How long is LIM_Tag2 OFF during a timing cycle? _____

What causes LIM_Tag2 to turn ON when SS4 is turned ON?_____
_____

What causes LIM_Tag2 to turn ON when SS4 is turned ON?_____
_____

_____ 23. How long is PL7 ON during a timing cycle?_____

How long is PL7 OFF during a timing cycle? _____

What causes PL7 to turn ON when SS4 is turned ON?_____

_____

_____

What causes PL7 to turn ON when SS4 is turned ON?_____

_____

_____

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