

MECHATRONICS CERTIFICATE PROGRAM LEARNING OUTCOMES

Program Required Courses	Solve technical problems requiring knowledge at a certificate level in HVAC, Basic Electricity, Welding and Drafting as evidence by 100% of students scoring a minimum of 75% on the capstone exam and 75% in each component area.	Interpret basic orthographic drawings for component parts and systems (dimension lines, datum lines, measurements, and size tolerances).	Demonstrate the use of a cutting torch and oxyacetylene welder as evidenced by 80% of students scoring a minimum of 100% on an evaluation rubric	Analyze and install low voltage HVAC control wiring.	Apply refrigeration principles and practices to air conditioning systems
HART 1401	M			I, R & M	
HART 1407	M				I, R & M
WLDG 1421	M		I, R & M		
DFTG 1309	M	I, R & M			

I = Introduced
R = Reinforced
M=Mastered

Under each PLO enter an I, R, or M in the row for the listed course where the PLO is either Introduced, Reinforced or Mastered. Core courses outside of the discipline should not be included unless it is tied to the PLO's for the program.

All courses listed should be mapped for I, R, & M if it is part of the program.

The course that the PLO is mastered in will be the course that the program assessment occurs in for that PLO