Introduction: Alpena Community College offers Certificates of Completion for basic and advanced millwright apprenticeship training. The curriculum meets current industry standards for this skilled trade. College credits earned in this program may be applied toward the requirements for an Associate Degree at ACC. This program prepares students to work in an industrial setting with installation and maintenance of hydraulics, pneumatic equipment, power trains, belts, gears, and chains. Students who have completed the basic program may obtain an advanced certificate by completing the specified courses. The Apprentice (APP) courses for this program of study are offered primarily at night on a four-year rotating basis.

BASIC COURSES			
Course	Title	CREDITS	Contact Hours
APP 100E	Electrical Studies for Trades	3.0	4.0
APP 106M	Industrial Safety	0.5	0.5
APP 121M or MFG 120	Apprentice Blueprint Reading A or Print Interpretation & Processes	3.0	4.0
APP 122M	Machine Repair ^A	3.0	4.0
APP 124M	Apprentice Hydraulics ^A	3.0	4.0
APP 125M or MFG 101	Apprentice Machine Shop A or Machining Processes I	3.0-4.0	4.0-6.0
APP 128M	Rigging & Weight Estimating ^A	1.5	2.0
APP 129M	Apprentice Pneumatics ^A	1.5	2.0
APP 223M	Predictive & Preventative maintenance ^A	3.0	4.0
WLD 123 or WLD 124	SMAW Welding Processes or GMAW & FCAW Welding Processes	4.0	6.0
MTH 110	Technical Math I	3.0	<u>4.0</u>
	Basic Courses Credits/Contact Hours:	28.5-29.5	38.5-40.5
A			

ADVANCED COURSES						
Course		TITLE	CREDITS	CONTACT HOURS		
APP 102E		Residential Wiring & Blueprint Reading	3.0	4.0		
APP 103E		Commercial & Industrial Wiring	3.0	4.0		
CHOOSE THREE						
	APP 111E	Electric Motor Control	3.0	4.0		
	APP 114E	Programmable Controllers	3.0	4.0		
	APP 290M	Millwright Internship	3.0	3.0		
	MFG 102	Machining Processes II	6.0	10.0		
	MFG 201	Introduction to CNC	6.0	10.0		
		An Additional WLD or MET Course	4.0	6.0		
		ADVANCED COURSES CREDITS/CONTACT HOURS:	<u>15.0-18.0</u>	<u>19.0-29.0</u>		
		TOTAL MINIMUM PROGRAM CREDITS/CONTACT HOURS:	43.5	57.5		

Notes:

^A Courses offered on a four-year rotating basis and vary upon demand – meet with your advisor Must complete Basic Courses prior to Advanced Courses