APPRENTICE – MILLWRIGHT
CERTIFICATE (C)

DESCRIPTION: 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 hydraulic, 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) course for this program of study are offered primarily at night on a four-year rotating basis.

BASIC REQUIREMENTS CREDITS: 29-30
APP 100E ELECTRICAL STUDIES FOR TRADES (3/4)
APP 106M INDUSTRIAL SAFETY (1/1)
APP 121M or APPRENTICE BLUEPRINT RDG (3/4) A or
MFG 120 PRINT INTERPRETATION & PROCESSES (3/4) A
APP 122M MACHINE REPAIR (3/4) A
APP 124M APPRENTICE HYDRAULICS (3/4) A
APP 125M or APPRENTICE MACHINE SHOP (3/4) A or
MFG 101 MACHINING PROCESSES I (4/6)
APP 128M RIGGING & WEIGHT ESTIMATING (1.5/2) A
APP 129M APPRENTICE PNEUMATICS (1.5/2) A
APP 223M PREDICTIVE & PREVENTATIVE MAINTENANCE (3/4) A
WLD 123 or SMAW WELDING PROCESSES (4/6) or
WLD 124 GMAW & FCAW WELDING PROCESSES (4/6)
MTH 110 TECHNICAL MATH I (3/4)

ADVANCED REQUIREMENTS CREDITS: 15-17
APP 102E RESIDENTIAL WIRING & BLUEPRINT RDG (3/4)
APP 103E COMMERCIAL & INDUSTRIAL WIRING (3/4)

CHOSE THREE COURSES FROM THE FOLLOWING:
APP 111E ELECTRIC MOTOR CONTROL (3/4)
APP 114E PROGRAMMABLE CONTROLLERS (3/4)
APP 290M MILLWRIGHT INTERNSHIP (3/4)
MFG 102 MACHINING PROCESSES II (4/6)
MFG 201 CNC I (4/6)
an additional WLD or MET course (4/6)

MINIMUM 29 CREDIT HOURS/39 CONTACT HOURS (BASIC)
MINIMUM 44 CREDIT HOURS/58 CONTACT HOURS (ADVANCED)

NOTES:
^ Courses offered on a four-year rotating basis
Must compete Basic courses prior to Advanced courses