Basic Welding
This course will introduce the basic welding concepts of Shielded Metal Arc Welding (Stick) and Gas Metal Arc Welding (Mig) processes. Students will also have the opportunity to use Oxy-fuel cutting equipment. Basic safety will be included for all processes as well as basic joint setup, machine setup and proper usage of the equipment. Students will need to provide their own personal protective equipment including: Leather work boots, Flame Resistant Jacket, Long Pants (No nylon/polyester), Leather Welding Gloves, Welding Helmet, Clear Safety Glasses, Tinted Safety Glasses, Chipping Hammer, Wire Brush, Mig Welding Pliers and Welding beanie (optional).

Course Details:
➢ Day/Time: Mondays 5:00 pm – 8:00 pm
➢ Date: Aug 31 – November 2, 2020
➢ Room: Skou Hall 150
➢ Tuition: $995 (includes materials)

Basic Industrial Electricity
Students will gain a basic understanding of the principles of electricity, electronic components, standards and schematics. Class and lab sessions will focus on the following: Personal and Equipment Safety, Definitions and Terminology; Basic Principles, Laws and Calculations; AC Principles, Wiring, Schematics and Codes; AC Motors, Lighting and other Equipment; Testing Instruments; Basic Troubleshooting and Repair; DC Principles and Components; DC Circuits, Diagrams and Schematics; Electronics and Semiconductors.

Course Details:
➢ Day/Time: Wednesdays and Fridays 2:00 – 5:00 PM
➢ Date: September 16 – October 16, 2020
➢ Room: Skou Hall 134
➢ Tuition: $695 + textbook

Advanced Hydraulics
A more in-depth look at hydraulic components and systems. Items to be covered will include complex systems of cartridge valves, proportional and servo controls, electrical feedback, closed and open loop control, and hydrostatic drives. Emphasis in the class and lab will be on understanding, troubleshooting and maintenance of these systems. (Prerequisite: Basic Hydraulics)

Course Details:
➢ Day/Time: Thursdays 5:00 pm – 8:00 pm
➢ Date: March 19 – May 21, 2020
➢ Room: Lecture 5:00 – 6:00 (Skou Hall 232) & Lab 6:00 – 8:00 (Skou Hall 140)
➢ Tuition: $695 + textbook

Industrial Motors & Motor Controls
This course is intended for the participant with some working knowledge and/or experience in industrial electricity. Designed to help prepare participants for employment in the field of industrial electrical maintenance, this course consists of lecture, lab demonstration, and hands-on and software-based lab assignments. Areas covered include: Safety, Understanding electrical drawings, Motor transformer and distribution systems, Motor control devices, Motor principles, DC motors, Three phase AC motors, Single phase AC motors, Motor selection, Motor installation, Motor maintenance and troubleshooting, Motor starters, Relays and logic, Motor control devices and AC and DC drives. (Prerequisite: Basic Industrial Electricity)

Course Details:
➢ Day/Time: Wednesdays and Fridays 2:00 – 5:00 PM
➢ Date: October 21 – November 25, 2020
➢ Room: Skou Hall 134
➢ Tuition: $695 + textbook

State workforce development funds may be available to help pay for these trainings. Please contact us for more information.