

INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS

This is a two course program.

1. INDUSTRIAL MOTOR CONTROLS - 21 hours

The process of motor control is integral to the flow of the product from raw material to finished product. This course will familiarize the student with the following: principles of solid-state control devices and their components; AC and DC motor controls; motor drives; control circuits; motor starters and pilot devices.

CRN: TBA

Start Date: September 4, 2008 - October 16, 2008

Time: Thursdays, 6:30 p.m. - 9:30 p.m.

OR

CRN: TBA

Start Date: September 6, 2008 - October 18, 2008

Time: Saturdays, 9:00 a.m. - 12:00 p.m.

Fee: \$295.00

Instructor: Ernie Canterbury



2. PROGRAMMABLE LOGIC CONTROLLERS - 30 hours

Prerequisite - Industrial Motor Controls

The incorporation of the PLC is one of the fastest growing sectors in the field of electronics as the PLC replaces electro-mechanical system, such as electromagnetic relays and programmable logic devices (PLD's). This course provides you with an overview of the PLC, its hardware, numbering systems and codes, logic fundamentals, programming timers and counters, program control and data manipulation instructions.

CRN: TBA

Start Date: October 23, 2008 - January 15, 2009

Time: Thursdays, 6:30 p.m. - 9:30 p.m.

OR

CRN: TBA

Start Date: October 25, 2008 - December 27, 2008

Time: Saturdays, 9:00 a.m. - 12:00 p.m.

Fee: \$420.00

Instructor: Ernie Canterbury

ROBOTICS - 30 hours

This course will give the student a brief history of robotics applications in the manufacturing process and a vision of future applications. Students will be introduced to the hardware, software and programming necessary to specific robotics applications. Students will also examine electromechanical systems, sensing systems, programming and industrial applications

CRN: TBA

Start Date: September 9, 2008 - November 11, 2008

Time: Tuesdays, 6:30 p.m. - 9:30 p.m.

Fee: \$420.00

Instructor: Ernie Canterbury

MICROPROCESSOR/MICROCONTROLLER - 30 hours

This course is designed to provide an overview of the microprocessor and microcontroller by reviewing the fundamentals of 8085A architecture, software and interface applications.

CRN: TBA

Start Date: September 10, 2008 - November 12, 2008

Time: Wednesdays, 6:30 p.m. - 9:30 p.m.

Fee: \$420.00

Instructor: Ernie Canterbury

INTRODUCTION TO SOLIDWORKS - 30 hours

This course will introduce you to the vocabulary and basic functionality of the software. The course will cover such topics as: assembly basics, tool box basics, drawing basics, revolve and sweep features and loft features. You will learn to utilize these techniques by completing exercises and working on projects.

CRN: TBA

Start Date: September 3, 2008 - December 10, 2008

Time: Wednesdays, 3:00 p.m. - 5:00 p.m.

OR

CRN: TBA

Start Date: September 3, 2008 - November 5, 2008

Time: Wednesdays, 6:30 p.m. - 9:30 p.m.

Fee: \$500.00

Instructor: Staff

INTRODUCTION TO AUTOCAD

This is a two-course program

1. CAD 2D MECHANICAL AUTOCAD - 30 hours

This course covers the techniques of generating technical drawing with computers utilizing AutoCAD software in an IBM-PC environment. The student will be introduced to AutoCAD for 2D geometric construction and technical drafting conventions in a mechanical environment. This will include creating and editing drawings, applying text, dimensioning, sectioning, and plotting.

CRN:

Start Date: September 6, 2008 - November 8, 2008

Time: Saturday 1:00 p.m. 4:00 p.m.

Fee: \$375.00

Instructor: Staff

2. AUTOCAD LEVEL II

Prerequisite CAD 2D Mechanical AutoCAD - 30 hours

Building upon skills acquired in CAD 2D Mechanical AutoCAD, students will produce more complicated multiview drawings using AutoCAD software. This course will emphasize creation of professional drawings typical of machine production prints.. Students will create symbol libraries, utilize internet resources for technical drawings, and will be introduced to 3D construction

CRN: TBA

Start Date: November 15, 2008 - January 17, 2009

Time: Saturday 1:00 p.m. - 4:00 p.m.

Fee: \$375.00

Instructor: Staff

CNC CERTIFICATE

If you need to increase your job marketability or you're looking for a new position in your current company, this may be the answer.

Requires a background of mathematics and blueprint reading

This is a three course program.

1. INTRODUCTION TO CNC PROGRAMMING - 18 hours

Topics include Cartesian coordinates, basic codes, elementary manual programming, word address systems and safety.

CRN: TBA

Start Date: September 6, 2008 - October 11, 2008

Time: Saturday 9:00 a.m. - 12:00 p.m.

Fee: \$250.00

Instructor: Stan Kochanek

2. INTRODUCTION TO CNC VMC - 18 hours

Requires Introduction to CNC Programming or the Equivalent

Learn the programming, set-up and operation and editing of a 3-axis CNC vertical milling center with Fanuc control.

CRN: TBA

Start Date: October 18, 2008 - November 22, 2008

Time: Saturday 9:00 a.m. - 12:00 p.m.

Fee: \$250.00

Instructor: Stan Kochanek

3. INTRODUCTION TO CNC LATHE - 18 hours

Requires Introduction to CNC Programming or the Equivalent

Learn programming, set-up and operation of a 2-axis CNC slant-bed lathe with Fanuc control.

CRN: TBA

Start Date: November 29, 2008 - January 3, 2008

Time: Saturday 9:00 a.m. - 12:00 p.m.

Fee: \$250.00

Instructor: Stan Kochanek

Welding, Ornamental Iron Working & Fabrication

Course Description: Introduction to Arc welding, welding safety, equipment safety and general knowledge, ornamental iron and fabrication. Each student will complete a project utilizing the knowledge and skills acquired in the class. Classes cover Gas, Arc, MIG, TIG welding and plasma cutting **Class size is limited to 10 students.**

On completion of the class students will be able to:

- Recognize safety hazards in the shop environment
- Perform basic welds with MIG, TIG and Arc welding processes
- Design and fabricate ornamental pieces

CRN: TBA

Course Length: 2x a week for 12 weeks

Dates: September 23, 2008 - December 18, 2008

Times: Tuesdays & Thursdays from 6:00 p.m. - 8:00 p.m.

OR

CRN: TBA

Course Length: 1x a week for 8 weeks

Dates: September 26, 2008 - November 14, 2008

Times: Saturdays from 8:00 a.m. - 2:30 p.m.

Instructor: Steve Goodrow

Cost: \$550.00 - includes materials

Contact: Maura Gardiner (860) 253-3032/mgardiner@acc.commnet.edu