

Manufacturing Technology Courses

CNC stands for computer numerical control. It is a versatile system that allows you to control the motion of tools and parts through computer programs that use numeric data. In today's world of global competition, a company can not survive without "state-of-the-art" technically trained machine operators. Camden County College's goal is to provide this training. These practical, hands-on classes give our students the knowledge they need to perform these high demand jobs.

CNC Operations

This course teaches operation of Computer Numerical Control (CNC) mills, lathes, machining centers, operation of machine tools with controllers, file management, fixture and tool offsets, feeds and speeds, and safety. 2.4 CEU

Cost: \$499 (Tuition \$170; lab fees \$260; text & materials \$69)

Blackwood Location, CIM Factory Floor

CE.MFG 003-51 S, 8:30 a.m.-12:30 p.m.

CNC Programming

This course teaches RS274D standard codes (M&G codes), advanced techniques in CNC programming and Computer Aided Manufacturing (CAM). 2.4 CEU

Cost: \$499 (Tuition \$170; lab fees \$260; text & materials \$69)

Blackwood Location, CIM Factory Floor

CE.MFG 004-51 S, 8:30 a.m.-12:30 p.m.

MasterCAM Mill Level I

This course offers an introduction to CAM programming, MS-DOS, MS Windows, and the MasterCAM menu structure. Topics covered in depth are geometry and tool path definition for machined parts, construction plane definitions, CNC code generation, and communicating CNC code to the machine tool controller. Examples used support the 3 axis capabilities of MasterCAM. 2.1 CEU

Cost: \$525 (Tuition \$172; lab fees \$283 and text & materials \$70)

Blackwood Location, CIM Factory Floor

CE.MFG 005-51

6 sessions

MasterCAM Mill Level II

Prerequisite: MasterCAM Mill experience

This course teaches the use of MasterCAM's advanced surfacing capabilities including NURBS and Parametric surfaces, 3D geometry creation, 3D tool paths, construction planes to control tool axis orientation, complex surface creation and manipulation including the Coon's patch surface, intersection of surfaces, surface projections, surface shading and MCTV. 2.1 CEU

Cost: \$525 (Tuition \$172; lab fees \$283 and text & materials \$70)

Blackwood Location, CIM Factory Floor

CE.MFG 006-51

6 sessions

SPECIALIZED MANUFACTURING & TECHNOLOGY

CNC/CAM Programming Project Study

This specialized 60-hour course will focus on instruction in CNC machine setup and CNC manual programming for both mills and lathes. CAM programming concepts will be introduced using MasterCAM software. In addition, full 3D wire frames will be constructed and surfaced with all current surfacing technology. 6.0 CEU

Cost: \$3,750 (tuition \$1995; lab fees \$1510; and text & materials \$245)

Blackwood Location, CIM Factory Floor

CE.MFG 008

15 sessions

**Please call
(856) 374-4955
for exact class dates and
meeting times for
Manufacturing Technology Classes.**

Welding

Welding Project Study

This course offers practical training and relevant theory in various welding processes for positions as welders/fitters. This program has been designed with local companies needing to fill current and upcoming positions in welding.

Course #: CE.WLD 002

Hours: 320

Cost: \$5,800.00

(Tuition \$4,000, Materials \$1,800)

Welder and Fitter Training – Basic Field and Maintenance Applications

This 40-hour hands-on course provides basic education and hands-on skills development in GMAW (Mig), GTAW (Tig), and SMAW (Stick) Welding. Topics include electrical principles, safety, Weld Parameters, demonstrations, GNAW, GTAW, and SMAW overview. Also covered is Fabrication, fitting, and basic print reading. Students will gain entry level skills (see AWS designations for Welder Skill Levels – Entry Level).

Course #: CE.WLD 001

Hours: 50

Cost: \$999.00

(Tuition \$299, Lab Fee \$450, Materials \$250)

JOBS AVAILABLE AFTER TRAINING!

**Call 856-874-6004 for more info.
Day and evening classes available!**

CLASSES FORMING NOW!

**Please see Web site for dates and times.
www.camdenc.edu/ce • 856-874-6004**