

CNC Advanced Manufacturing

greatoaks.com/machining



CNC Advanced Manufacturing

Available at: Diamond, Live

COURSES

Machining with Industrial Milling Machines

In this course, students are directed in the safe use of manual milling machines. Students will apply their knowledge of product characteristics, perform necessary calculations, and use precision measuring instruments and layout equipment to mill products to print dimensions. Students will use these machine tools to shape, cut, drill and bore metal and other materials. Students will be able to identify operational problems and provide routine care and maintenance to the manual mill.

Machining with Industrial Lathes

This course directs the student in the safe use of different types of manual industrial lathes. Students will use these machine tools to shape, pattern, bore, thread and polish metal and other materials. Students will apply their knowledge of product characteristics, perform necessary calculations, use precision measuring instruments and make all adjustments needed to fabricate products to print dimensions. Students will be able to identify operational problems and provide routine care and maintenance to the lathe.

Computer Numerical Control w/ Industrial Mills & Lathes

In this course, students will use computer numerical control (CNC) programming to mill products comprised of various materials. Students will prepare numerical control programs in positioning systems using standard industrial G and M codes. They will program computerized numerical control mills and lathes.

Machine Tools

This course introduces students to all aspects of machining applications in manufacturing. They will be able to perform routine calculations, interpret basic drawings, begin the process of performing accurate measurements and plan simple machining processes. Students will learn the fundamental principles and practices of cutting, drilling and grinding using modern machine tools, hand tools and precision measuring instruments.

CREDENTIALS YOU CAN EARN

- FANUC CNC Mill and Lathe
- National Institute for Metalworking Skills – Level 1
- OSHA 10 – General Industry
- CPR/First Aid

INSTRUCTORS

- Diamond Oaks: Kevin Fox – foxk@greatoaks.com
- Live Oaks: Branden Osborne – osborneb@greatoaks.com