

ADVANCED MANUFACTURING

CERTIFIED PRODUCTION TECHNICIAN

WorkKeys Assessments: AM (level 4); LI (level 4); RI (level 4)

Local manufacturers, educational institutions and Ulster County Office of Employment and Training have partnered together to create a pipeline of skilled workers to meet the hiring needs of manufacturing employers and to prepare local job seekers with the skills needed to get self-sufficient jobs in manufacturing. This program consists of four individual certificate modules listed below. Students will register for both the WorkKeys Assessment and the Certified Production Technician. Suggested prerequisites: 9th grade math and 10th grade English.

DCB 1846-05	WorkKeys		Open enrollment		FREE
DCB 1786-09	T/R	3/7-4/13	1-4pm	KSU	\$1,299
DCB 1786-10		Starts 6/27		KSU	\$1,299
MFG101		Call for start date		KSU	\$1,328

Class time above does not include assessments. Students will schedule assessments with proctor.

Course price includes four assessments. Any additional assessments that students need will be \$65 ea.



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DCB 1846-05	ONLINE	WorkKeys	Open enrollment	FREE
DCB 2099-01	ONLINE		Open enrollment	\$1,299

SAFETY CERTIFICATE

Students are provided with an introduction to the manufacturing world and safe work practices in industrial environments. Students are introduced to manufacturing specializations such as mechatronics, precision machining and welding and continue on to discuss fire safety, pressurized gases, electrical hazards, and safe machine usage. Students will also become acquainted with OSHA policy.

MANUFACTURING PROCESSES & PRODUCTION CERTIFICATE

Students learn about the varying types of production and about the materials used in production. They will become familiar with the types of processes used in manufacturing including machining, casting and assembly.

QUALITY PRACTICES & MEASUREMENT CERTIFICATE

Students are given an introduction to controlling and improving quality in a manufacturing setting. They explore ways in which manufacturers utilize data to improve quality and introduces students to lean manufacturing techniques. The course includes sections on precision measurements, tools, and blueprint reading.

MAINTENANCE AWARENESS CERTIFICATE

Students are given a basic understanding of tools and equipment used in manufacturing. The course includes an overview of equipment for welding, electrical, pneumatic, and hydraulic systems, bearings and couplings, and belt and chain drives. Students are also provided with knowledge of how to improve productivity through predictive and preventive maintenance.

CERTIFIED PRODUCTION TECHNICIAN HANDS-ON ADD-ONS

Students who successfully complete the Certified Production Technician program have the option of applying to go on with Machining and Production I, CNC Machining and Mastercam®.

For more information on these courses, contact Barbara Reer at 845-802-7171.

MACHINING & PRODUCTION I

Hands-on study of machine shop practices is provided in this course, together with care of precision instruments, maintenance of lathes and milling machines, operation of lathe controls, filing, deburring, polishing, use of digital readout, use of micrometer, dial indicators, and pitch micrometers.

CNC OPERATOR II

This course provides students with entry level CNC machine operating skills. Course includes an introduction to CNC machining including shop safety, blueprint reading, precision measurements and CNC operation.

MASTERCAM®

Learn the software used by professionals in the manufacturing industry in this 30-hour course.

Mastercam® is a computer-aided design (CAD) program. The software helps CNC programmers create mechanical drawings and machine parts using 3-D wire frame models.