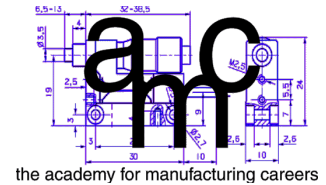


Academy for Manufacturing Careers

Quality Certificate



Industrial Blueprint Reading – 2 credits - 32 hours

This course provides the understanding and interpretation of a variety of mechanical and electrical blueprints. Emphasis is placed on reading and interpreting blueprints found in a manufacturing environment. Student will gain the ability to recognize and identify symbols and specifications common to modern industrial blueprints. Topics include: lines and symbols, views, material, form and position, title blocks, sketching, features, and sections.

Basic Gauges & Measurement – 2 credits - 32 hours

Prerequisite: Industrial Blueprint Reading

This course covers use of calipers, micrometers, English and metric gauges and other measuring instruments within a manufacturing environment. Topics include: English vs. metric, calibration of instruments, importance of repeatability, hands-on measurement of piece work, and instrument inspection and care.

Machining Theory & Methods – 2 credits - 64 hours

Prerequisite: Basic Gauges & Measurement

A basic course in machining theory and an introduction to the use of common tools and techniques in manufacturing. Topics introduced include: turning, boring, drilling, milling, grinding, use of hand tools, machine setup, preventative maintenance, efficient operation of tools, and use of the Machinery Handbook.

Problem Solving – 0 credits - 8 hours

This class introduces participants to the problem solving basics and G8-D reporting methods. It covers the reasons for gathering data when you need to analyze a problem and introduces students to some of the basic tools of problem solving and how these tools are used. Tools covered include: cause & effect (fishbone) diagrams, SPC control charts, 5-why methods, brainstorming and scatter diagrams.

Basic Computers – 2 credits - 32 hours

This class provides students with hands-on experience in the basics of computer concepts ranging from Windows 7 to Microsoft Office, Excel, PowerPoint and Outlook.

Intermediate Blueprint Reading/GD&T– 2 credits - 32 hours

Geometric Dimensioning and Tolerancing covers the fundamentals of GD&T concepts, and teaches how to read and interpret prints with GD&T symbols. Content is based upon ANSI/ASME Y 14.5M-2009 standards.

Advanced Gauges & Measurement/Intro to CMM – 2 credits - 32 hours

This course will cover Advanced Gauges and CMM basics.

NOTICE OF NONDISCRIMINATORY POLICY AS TO STUDENTS

The Academy for Manufacturing Careers admits students of any race, color, national and ethnic origin, ancestry, religious creed, age, disability, marital status, sexual orientation, gender, or gender expression to all the rights, privileges, programs and activities generally accorded or made available to students at the school. It does not discriminate on the basis of race, color, national and ethnic origin, ancestry, religious creed, age, disability, marital status, sexual orientation, gender, or gender expression in administration of its educational policies, admissions policies, scholarship and loan programs, and any other school-administered programs.



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Manufacturers Association
Helping Manufacturers Succeed & Grow Since 1937

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