ENGINEERING



PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

Training Packages from Tooling U-SME offer quick-start, progressive road maps in various functional areas that allow manufacturers to build career paths for employees. They are intended to enhance your existing OJT and help you create a job progression plan. Unlike many other training programs, these packages require minimal preparation. They are efficient, effective training, developed with input from manufacturing experts.

FLEXIBLE AND CONVENIENT

Online classes are self-paced, typically taking 60 minutes to complete. They are easily and conveniently accessible on desktops and laptops, and on tablets and phones with the Tooling U-SME app.

CAREER PATHWAYS FOR ENGINEERING JOB ROLES

Combine job roles for learning pathways, or offer single job roles for targeted learning. Large comprehensive programs are also available.

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Rowan-Cabarrus

Online Training offers:

- Content developed by industry experts
- Accessible anytime, anywhere
- Self-paced

ENGINEERING

TECHNICIAN

- Predefined curriculum for each job role
- Engaging and interactive content
- Pre- and post-training knowledge assessments
- Access to Tooling U-SME's Learning Management System (LMS)
- Guidance from our Client Success team, including advice, insights, and ideas built on best practices and years of experience

To begin your training program or for more information, contact Jon Ramm at **704-216-3910** or **jon.ramm@rccc.edu**

DC Circuit Components

Introduction to Circuits

Basics of Tolerance

Blueprint Reading

Forces of Machines

Drill Tool Geometry

Lathe Tool Geometry

Introduction to Assembly

Electrical Units

ENGINEERING

ENGINEERING FUNDAMENTALS

Additive Manufacturing Methods and Materials Additive Manufacturing Safety Introduction to Additive Manufacturing Introduction to CAD and CAM for Machining AC Fundamentals

ENGINEERING TECHNICIAN

Basics of G Code Programming Parallel Circuit Calculations Series Circuit Calculations Introduction to Hydraulic Components Introduction to Pneumatic Components The Forces of Fluid Power Introduction to GD&T SPC Overview Troubleshooting NICIAN Classification of Steel Ferrous Metals Hardness Testing Nonferrous Metals Thermoplastics Thermoplasts

Power Transmission Components

Lean Manufacturing Overview Essentials of Heat Treatment of Steel Introduction to Ceramics Introduction to Composites Introduction to Mechanical Properties Introduction to Metals

Mill Tool Geometry

Basics of Ladder Logic

PLC Timers and Counters

for Siemens PLCs

Basics of Siemens PLCs

Development

Siemens PLC Communication

Equipment/Tool Design and

Introduction to PLCs

Introduction to Physical Properties Introduction to Plastics Cutting Processes Algebra Fundamentals Geometry: Circles and Polygons Geometry: Lines and Angles

Process Design and Development

Product Design and Development

Production System Design and

Quality and Customer Service

Hand and Power Tool Safety

Automated Systems and Control

Applied and Engineering Sciences

ISO 9001 Review

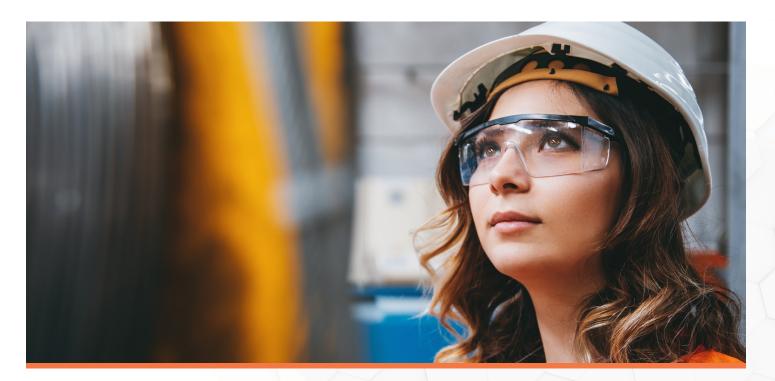
Development

Geometry: Triangles Statistics Trigonometry: Sine, Cosine, Tangent Trigonometry: The Pythagorean Theorem Units of Measurement

Manufacturing Process Applications: Part I Manufacturing Process Applications: Part II Punch and Die Operations Manufacturing Management Personal Effectiveness Introduction to Welding Processes Fixture Design Basics Supporting and Locating Principles

- New content is always being added. Check with your representative for the most current list of classes. -

Basic Ladder Diagram Programming







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