

TAKE OFF WITH ADVANCED MANUFACTURING VIRTUAL LEARNING

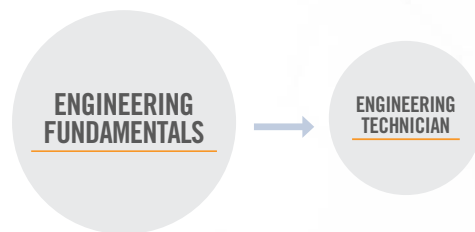
Virtual Skills Academy from Sandhills Community College offers a quick-start road map that allows individuals to build knowledge in preparation for a career in manufacturing. This online academy is intended to provide basic understanding of engineering concepts and practices in manufacturing and bring awareness to opportunities for positions in this area. Courses are stacked to follow a job progression plan. Unlike many other training programs, the Virtual Skills Academy requires minimal preparation. It is efficient, effective training that has been developed with input from manufacturing experts.

FLEXIBLE AND CONVENIENT

Online classes are self-paced, and easy to access through smart phones, tablets, and computers. Each course provides pre- and post- assessments and the ability to review and learn through a variety of engaging activities.

CAREER PATHWAYS FOR ENGINEERING JOB ROLES

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



Virtual Skills Academy Provides:

- Preset curriculum
- Engaging online classes
- Supplemental videos
- Pre- and post-training knowledge assessments
- Guidance from Sandhills Community College Staff
- Readiness for On-the-Job Training
- Preparation for entry-level jobs in manufacturing
- Demonstrated proof of aptitude
- Opportunity to showcase personal initiative

GEER Scholarships Funding Available
Contact us for more information

www.sandhills.edu/continuing-education | 910-695-3980

Get ready for your career to TAKE OFF

ENGINEERING FUNDAMENTALS

Additive Manufacturing Methods and Materials	DC Circuit Components Electrical Units	Lean Manufacturing Overview	Introduction to Physical Properties	Geometry: Triangles
Additive Manufacturing Safety	Introduction to Circuits	Essentials of Heat Treatment of Steel	Introduction to Plastics	Statistics
Introduction to Additive Manufacturing	Introduction to Assembly	Introduction to Ceramics	Cutting Processes	Trigonometry: Sine, Cosine, Tangent
Introduction to CAD and CAM for Machining	Basics of Tolerance	Introduction to Composites	Algebra Fundamentals	Trigonometry: The Pythagorean Theorem
AC Fundamentals	Blueprint Reading	Introduction to Mechanical Properties	Geometry: Circles and Polygons	Units of Measurement
		Introduction to Metals	Geometry: Lines and Angles	

ENGINEERING TECHNICIAN

Basics of G Code Programming	Classification of Steel	Mill Tool Geometry	ISO 9001 Review	Manufacturing Process Applications: Part I
Parallel Circuit Calculations	Ferrous Metals	Basics of Ladder Logic	Process Design and Development	Manufacturing Process Applications: Part II
Series Circuit Calculations	Hardness Testing	Introduction to PLCs	Product Design and Development	Punch and Die Operations
Introduction to Hydraulic Components	Nonferrous Metals	PLC Timers and Counters	Production System Design and Development	Manufacturing Management
Introduction to Pneumatic Components	Thermoplastics	Basic Ladder Diagram Programming for Siemens PLCs	Quality and Customer Service	Personal Effectiveness
The Forces of Fluid Power	Thermosets	Basics of Siemens PLCs	Automated Systems and Control	Introduction to Welding Processes
Introduction to GD&T	Forces of Machines	Siemens PLC Communication	Hand and Power Tool Safety	Fixture Design Basics
SPC Overview	Power Transmission Components	Equipment/Tool Design and Development	Applied and Engineering Sciences	Supporting and Locating Principles
Troubleshooting	Drill Tool Geometry			
	Lathe Tool Geometry			



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