

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 assembly concepts and processes understanding and bring awareness to opportunities within the manufacturing industry. 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 ASSEMBLY JOB ROLES

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

ASSEMBLER



MECHANIC



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

ASSEMBLER

Types of Adhesives
Coating Defects
Intro to Coating Composition
Processes for Applying Coatings
Surface Preparation for Coatings
Introduction to Assembly
Introduction to Fastener Threads
Overview of Non-Threaded Fasteners

Overview of Threaded Fasteners
Safety for Assembly
Tools for Threaded Fasteners
Basic Measurement
Basics of Tolerance
Blueprint Reading
Calibration Fundamentals
Hole Standards and Inspection

Thread Standards and Inspection
5S Overview
Lean Manufacturing Overview
Ferrous Metals
Introduction to Mechanical Properties
ISO 9001 Review
Intro to Machine Rigging
Rigging Equipment

Bloodborne Pathogens
Fire Safety and Prevention
Hand and Power Tool Safety
Intro to OSHA
Lockout/Tagout Procedures
Noise Reduction and Hearing Conservation
Personal Protective Equipment

Powered Industrial Truck Safety
Safety for Lifting Devices
SDS and Hazard Communication
Walking and Working Surfaces
Math Fundamentals
Math: Fractions and Decimals
Units of Measurement

ASSEMBLY MECHANIC

Basics of the Bonding Process
Steps for Adhesive Application
DC Circuit Components
Electrical Units
Introduction to Circuits
Safety for Electrical Work

Properties for Fasteners
Fittings for Fluid Systems
Introduction to Fluid Conductors
Introduction to Hydraulic Components
Introduction to Pneumatic Components

Safety for Hydraulics and Pneumatics
Introduction to GD&T
Major Rules of GD&T
Metrics for Lean
Troubleshooting
Introduction to Mechanical Systems

Lubricant Fundamentals
Safety for Mechanical Work
Lifting and Moving Equipment
Rigging Inspection and Safety
Geometry: Circles and Polygons
Geometry: Lines and Angles

Geometry: Triangles
Trigonometry: Sine, Cosine, Tangent
Overview of Soldering



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