

TAKE OFF WITH ADVANCED MANUFACTURING VIRTUAL LEARNING

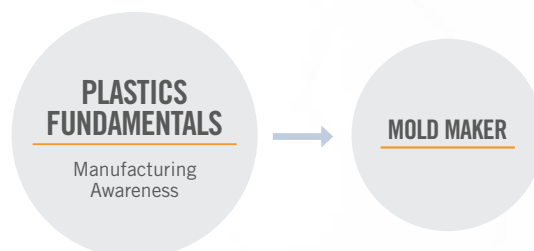
Virtual Skills Academy from Sandhills Community College offers a quick-start road map that allows individuals to build knowledge in preparation for a career in manufacturing. This online academy is intended to provide basic mold understanding and bring awareness to opportunities within the manufacturing 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 MOLD MAKER 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

Get ready for your career to TAKE OFF

PLASTICS PROCESSING FUNDAMENTALS

Basic Measurement
Basics of Tolerance
Blueprint Reading
Calibration Fundamentals
Hole Standards and Inspection
Thread Standards and Inspection

5S Overview
Lean Manufacturing Overview
Introduction to Mechanical Properties
Introduction to Plastics
ISO 9001 Review
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
Geometry: Circles and Polygons

Geometry: Lines and Angles
Geometry: Triangles
Math Fundamentals
Math: Fractions and Decimals
Trigonometry: Sine, Cosine, Tangent
Units of Measurement

MOLD MAKER

Basics of the Cylindrical Grinder
Basics of the Surface Grinder
Cylindrical Grinder Operation
Dressing and Truing
Grinding Processes

Grinding Safety
Grinding Variables
Grinding Wheel Geometry
Grinding Wheel Materials
Grinding Wheel Selection

Introduction to Grinding Fluids
Setup for the Cylindrical Grinder
Setup for the Surface Grinder
Surface Grinder Operation
Calculations for Programming the Mill

Canned Cycles for the Mill
Creating a CNC Milling Program
Introduction to GD&T
Major Rules of GD&T
Troubleshooting

Basic Cutting Theory
Carbide Grade Selection
Cutting Tool Materials
Speed and Feed for the Lathe
Speed and Feed for the Mill



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