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 and plastic extrusion 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 MOLD/EXTRUSION OPERATOR JOB ROLES**

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

- Advanced Thermoset Resins for Composites
- Composite Inspection and Defect Prevention
- Intro to Compression Molding
- Electrical Units
- Safety for Electrical Work
- Fittings for Fluid Systems
- Introduction to Fluid Conductors
- Introduction to Hydraulic Components
- Introduction to Pneumatic Components
- Preventive Maintenance for Fluid Systems
- Safety for Hydraulics and Pneumatics
- The Forces of Fluid Power
- Thermoplastics
- Thermosets
- Forces of Machines
- Introduction to Mechanical Systems
- Safety for Mechanical Work
- Intro to Machine Rigging
- Rigging Equipment
- Rigging Inspection and Safety
- Rigging Mechanics

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