



CLASS CATALOG



Manufacturing Training for Everyone.

Manufacturing is a broad industry—and we have an extensive training catalog to match it. With more than 400 unique titles, we provide training for practically every role. Every class is tailored specifically to a manufacturing audience and is reviewed by industry experts to ensure that our training meets your organizational needs.

This catalog presents **TOOLINGU.COM** training organized into general industry niches. However, our training is easily arranged into individually tailored curricula that target the learners' specific needs. Contact a Toolingu.com representative to learn how we can help you develop a structured, blended-learning program for your organization.

Summary of Industries Served

Foundational

TOPIC	HIGHLIGHTS
Inspection	linear measurement, GD&T, calibration, CMMs, optical comparators, hole & thread inspection
Materials	steel grades, heat treatment, plastic types
Quality	lean, SPC, TPM, 5S, value stream mapping, kaizen teams, troubleshooting
Rigging	lifting equipment, safety and inspection, load calculations
Safety	OSHA guidelines, PPE, lockout/tagout, MSDS, machine guarding, hand/power tool safety
Shop Essentials	shop math, tolerances, print reading, geometry and trig
Supervisory Essentials	communication, performance management, conflict resolution, coating estimating

Assembly

TOPIC	HIGHLIGHTS
Adhesives	dispensing equipment, joint preparation
Fasteners	thread specifications, fastener selection, proper torquing
Soldering	PCB soldering, lead-free soldering

Machining

TOPIC	HIGHLIGHTS
Abrasives	surface grinding, centerless grinding, cylindrical grinding, wheel grades, dressing and truing
CNC	G code programming, offsets, toolpath calculations, canned cycles
CNC Controls: GE Fanuc	offset changes, program execution, proving out new setups
CNC Controls: Haas	offset changes, program execution, proving out new setups
CNC Controls: Mazak	offset changes, program execution, proving out new setups
Manual Machining	benchwork and layout, mill/lathe operation, holmaking, threading on an engine lathe
Metal Cutting	speeds and feeds, tool grades, cutter geometry, optimizing tool life
Workholding	locating principles, fixture design

Maintenance

TOPIC	HIGHLIGHTS
Electrical Systems	Ohm's Law, circuit calculations, electrical print reading, use of the NEC
Hydraulics/Pneumatics	power sources, control valves, actuators, fluid maintenance, system design
Mechanical Systems	power variables, lubrication, gear applications, bearings, belt drives, clutches and brakes
Motor Controls	ladder/line diagrams, control devices, motor theory
PLCs	ladder logic, inputs/outputs, hardware and installations
Robotics	component maintenance, sensors, end effectors, installation, and troubleshooting

Welding and Fabrication

TOPIC	HIGHLIGHTS
Press Brake	bend types, press brake controls
Stamping	die components, coil handling, die setting
Welding	stick welding (SMAW), MIG (GMAW), TIG (GTAW), flux core (FCAW)

Class Catalog

FOUNDATIONAL



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FEATURE KEY	
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■	Contains Simulator
■	Available in Spanish
■	Available in Simplified Chinese
■	Coming Soon

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WELDING AND FABRICATION



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Coming Soon

TOPIC	HIGHLIGHTS
Coatings	curing process, manual application, VOCs, and technologies such as power coating and UV-curing
Composites	manual layup, manual sprayup, vacuum bagging, mold prep
Machining Exotic Alloys	types of exotic metals, machining titanium, machining superalloys such as Inconel, Hastelloy, etc.

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Online Training Is More Than a Class List.

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