

JACKSON COLLEGE

# Workforce Training, Occupational & Career Courses



**CUSTOMIZED TRAINING CATALOG**

Corporate and Continuing Education (CCE) at Jackson College understands how important it is for employers to have a well-trained workforce in today's competitive market. CCE collaborates with economic and workforce development partners to better serve employers in the South Central Michigan region. As businesses expand and diversify to remain competitive, having a pulse on the local business community allows CCE to be proactive and demand-driven in its training approach. In response to ever-changing workforce needs, CCE offers a variety of programs for employers, including customized workforce training.

Our Workforce Training team will work with you to develop a training program that fits your schedule and training objectives. CCE can provide training at your preferred location, either at your facility or on campus, and can provide laptops for small class sizes for company on-site trainings. We provide experienced instructors and class evaluations to ensure quality learning.

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### **Don't see a course listed?**

Any of our current courses can be customized to meet your business objectives. Let us know what you are looking for; CCE will work with you to customize the training you need.

Corporate and Continuing Education

517-796-8610

[www.jccmi.edu/CCE](http://www.jccmi.edu/CCE)

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## CUSTOMIZED TRAINING CATALOG

### MANUFACTURING SKILLS

- MSSC – Certified Production Technician
- AC /DC Electrical Diagrams, Components, Test
- Arc Flash
- Basic G & M code
- Biofuels Technology: Ethanol
- Blue Print Reading and Schematics
- Boiler Plant Operations and Maintenance
- Computer Numerical Control (CNC)
- Design for Manufacturability (DFM)
- Electromagnetic Compatibility (EMC)
- Fluid Power
- Framing Systems
- Fiber Optics Installation
- GD&T
- Green Construction
- HVAC
- Hydraulics Fundamentals
- Injection Mold Process
- Manual Lathe & Mill
- Mechanical Systems and Power Transmission
- Mechatronics
- Millwright Basics
- Motor Controls and Relay Logic Circuits
- Pipefitting and Tube Bending
- PLC and Control
- PLC Maintenance & Troubleshooting – RSLogix 5000
- PLC Programming Software AB, Siemens, Mitsubishi etc.
- Pneumatics and Hydraulics
- Principles of Manufacturing
- Protective Relay Maintenance
- Robotics – Operations and Programming
- Robots Operation, Mechanical and Electrical Troubleshooting
- TeleCom & Structured Cable Installation
- Sheet Metal Fabrication
- Welding and Fabrication
- Welding Systems

### INFORMATION TECHNOLOGY

- Database Technology: (Oracle, Microsoft, DB2 and SQL)
- Network Administration, Design and Support: (Microsoft, CompTIA, Citrix, Cisco, HP, Solaris, Linux or UNIX)
- Development/Programming: (Microsoft.NET, Web Design. Visual Basic, Java, J2EE, C, C++, Mainframe, Perl, XML, WebSphere, CMMI, UML, HTML and Javascript)
- Network Security/ Cyber Security: (Microsoft, SCP, Checkpoint, ComTIA, and CISSP)

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### QUALITY/ENVIRONMENTAL/SAFETY

- 7 Step Corrective Action Process ISO 9001:2000
- Process Improvement Simulation
- 5 S Workshop
- CRM-Customer Relationship Management
- Design of Experiments
- FMEA Potential Failure Mode and Effects Analysis
- ISO 14001
- ISO 9001 Quality Management System
- Lean Management Systems
- Lean Manufacturing
- Lean Healthcare
- Lean IT
- Lean Engineering
- Lean Six Sigma
- Six Sigma – Yellow, Green and Black Belt
- SPC - Statistical Process Control
- OHSAS 18001
- 10 & 30 Hour OSHA Certificates
- Advanced Product Quality Planning (APQP)
- Production Part Approval Process (PPAP)
- Measurement System Analysis (MSA)
- Statistical Process Control (SPC)
- Control Plans and Planning
- DVP&R
- Automotive/Production Core Tools

### CAD/CAM/PLM

- AutoCAD
- Mechanical Desktop
- Inventor
- Solidworks
- CATIA V5 and V6
- SmarTeam
- ENOVIA
- Creo
- Windchill
- Unigraphics
- MasterCam
- Revit

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## CUSTOMIZED TRAINING CATALOG

### LEADERSHIP/MANAGEMENT SKILLS

- Managing Change
- Proactive Listening
- Clarifying Team Roles and Responsibilities
- Identifying Work Priorities and Setting Goals
- Building a Collaborative Relationship
- Optimal Performance
- Coaching: Bringing Out the Best in Others
- Dealing with Emotional Behavior
- Diversity Awareness Workshop
- Establishing Performance Expectations
- Frontline Leadership
- Resolving Team Conflicts
- Taking Corrective Action
- Gaining Commitment to Preset Goals
- Getting Your Idea

### PROJECT MANAGEMENT

- Project Management Institute
- PMP Certification
- Project Planning
- Project Leadership / Team Effectiveness
- Organization Development Courses
- Professional and Career Development
- Continuous Improvement Courses
- IT Project Management
- ITIL
- Human Resources

### CUSTOMER SERVICE

- Voice of the Customer
- Connecting with Customers
- Guiding Customer Conversations
- Healing the Customer Relationship
- Meeting the Unspoken Customer Needs
- Reaching for Stellar Service
- Resolving Issues that Impact the Customer
- The Service Difference

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### LOGISTICS AND SUPPLY CHAIN

- CLA Certified Logistics Associate
- CLT Certified Logistics Technician
- Procurement and Supply
- Sourcing Strategies
- Organizing by Commodity
- Shared Services Models for Logistics and Procurement
- Logistics Enabling Software
- Stochastic Modeling
- Value Stream Mapping of Supply Chain
- Cross-Docking and Routing
- Sea, Rail, and Truck modes
- Expedited Freight
- I2 Software
- International Logistics and Sourcing
- Tax, Shipping, Port, Dunnage, Warehousing
- Value Stream Mapping the Supply Chain
- Total Cost of Ownership: Inventory to Internal Logistics
- The Supplier Campus
- Just In Time Inventory
- Building out new Supply Chains: local and International
- Standardization of Lead time and Door-to-
- Supply Chain Management and Dashboards
- Supply Chain Management and ERP
- Raw Material, Hazardous Waste, Tier Twos, and Tier Ones
- Engineering, Manufacturing, Procurement, and Logistics Efficiencies
- Lean Supply Chain
- Telelogistics: Next Wave Thinking
- GPS and "Vulcanized Logic"
- Reducing LTL Deliveries

### WORKFORCE ASSESSMENTS

**Basic Electrical Assessment:** The Basic Electrical Assessment will assess individuals in basic electrical competencies, including understanding what electricity is, digital meter operations, ohm's law, the difference between conductors, semiconductors and insulators, power supplies oscilloscope operations, and relay operations.

**SS Electronics Assessment:** The SS Electronics assessment will assess individuals in solid state electronics competencies, including understanding solid state electronics, current flow through a PN junction, four basic categories of diodes, basic transistor basic transistor configurations, how regulators work, classes of transistor operation, oscillators and multi-vibrators, field effect transistor characteristics, and switch mode power supply characteristic.

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**Digital Electronics Assessment:** The Digital Electronics assessment will assess individuals in digital electronics competencies, including digital and analog circuits, binary number system, logic gates, and combinational logic gates, logic encoding and decoding, types of flip flops, digital counters, and connecting analog and digital devices together.

**Fluid Power Assessment:** The Fluid Power assessment will assess individuals in fluid power competencies including pneumatic indirect control circuits, pneumatic rapid advance circuit, pneumatic reciprocating circuits, hydraulics meter-out speed control circuits, hydraulics pressure reducing valve circuit, and hydraulics regeneration circuits.

**Machining Assessment:** The Machining assessment will assess individuals in machining competencies which include basic machining tool, properly utilize machine tools - engine lathe, properly utilize machine tools - milling machine, and properly utilize machine tools - grinders.

**Mechanical Systems Assessment:** The Mechanical Systems assessment will assess individuals in mechanical systems competencies, including belt drives, chain drives, gear drives, clutches, electric motor fundamentals, and couplings.

**Motor Controls Assessment:** The Motor Controls assessment will assess individuals in motor control competencies, including types of ac and dc motors, basic motor operation, counter electromagnetic force, purpose of control circuits, read motor nameplate data, wiring diagram symbols, three phase synchronous motors, relay logic diagrams, electrical blueprint diagrams, low voltage release and low voltage protect circuits, and motor control starters.

**Welding Assessment:** The Welding assessment will assess individuals in welding competencies, including welding machine setup, safety, Tig welding, Stick welding and Mig welding.

**RS Logix 5000 Assessment:** The RS Logix 5000 assessment will assess individuals in RS Logix 5000 competencies, including demonstrating the use of tags or symbols in logic and monitor in databases, demonstrate the use of cross reference to locate instructions throughout a project, and ladder logic programming.

**Robotics Operations Assessment:** The Robotics Operations assessment will assess individuals in robotic operations competencies, including turning on and jogging the robot, recover from common faults, create a teach pendant program, run a teach pendant program, macro program, and program and file manipulation.

**Robotics Mechanical Assessment:** The Robotics Mechanical assessment will assess individuals in robotic mechanical competencies, including mechanical robotic system, preventive maintenance, component replacement, and mastering.

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**Robotics Electrical Assessment:** The Robotics Electrical assessment will assess individuals in robotic electrical competencies, including electrical robotic system identification, troubleshoot power problems, fuse based troubleshooting and error code troubleshooting.

**Rigging Assessment:** The Rigging assessment will assess individuals in rigging competencies, including eye bolts, moving a load, standard classification of hoist, types of powered hoist, sling rating, basic cause of misalignment, and stages of alignment, cause of soft foot, bar sag / dial indicator, and manual alignment.

**Pipefitting Assessment:** The Pipefitting assessment will assess individuals in pipefitting competencies, including assemble and install pneumatic hose, assemble and install hydraulic hose, cut and install thermoplastic tube, install and set pipe threading dies, assemble screw pipe header, and hand bend and install steel tube.