



ADVANCED MANUFACTURING SKILLS CERTIFICATE PROGRAM

Program Description

In today's global economy, the manufacturing industry must strive to remain current and successful against often overwhelming obstacles. Rapid technology changes, greater competitiveness, increased customer demands coupled with the rising demand for workers with advanced skills and technical knowledge.

To meet the challenges head on, the local manufacturing association, Manufacturing resource centre, Quinte Economic Development, and Loyalist have partnered to design and deliver a 10- week manufacturing operator training program for local participation.

This program was co-designed to give participants the essential skills for employment in manufacturing and supply chain facilities, i.e. quality assurance, machine trade skills, industrial health and safety, communication and team skills, lean manufacturing and continuous improvement tools.

Employment Opportunities

Quinte and area manufacturers
Supply chain facilities i.e. machine shops, fabricators, distribution/warehouse, manufacturing facilities throughout Ontario

Prerequisite

Grade 12 or equivalent
Successful completion of the pre-screening process. The process may include the Canadian Adult Achievement Test (CAAT), a personal interview, and reference checks.
Previous production experience an asset
Capacity to perform physically demanding work.

Duration: 10 weeks (350 hours @ 7 hours per day)

Dates: Starts on June 6, 2011

Cost: \$8,900.00 + HST

Contact Person: Mike McDermott
(613) 969-1913 Ext. 2273
mmcdermo@loyalistic.on.ca

Program Content

Continuous Improvement

- Intro to High Performance Work Teams
- Lean, Six Sigma,, TPM concepts and tools
- Problem Solving Methodologies
- Statistical Process Control (SPC)
- ISO/QS9000 plus Intro to ISO/TS 16949 + other STDS
- Sustainability and energy management concepts
- Continuous Improvement Tools – 5s, visual workplace, MEPP, standardized work, Quick changeovers.

Operator Preventative Maintenance

- Machine trade skills
- Equipment Competent operators
- Precision measurement
- Basic Electrical Concepts
- Trouble shooting
- Fluid Power (Fundamentals of Pneumatics and Hydraulics)
- Operating Equipment, Inspection Duties, and Documentation

Health and Safety

- WHMIS
- Rights & Responsibilities
- Pedestrian Safety (working around forklifts)
- Lockout/Tagout
- Overhead Crane
- Aerial Personal Lift and Fall Protection
- Forklift Operator Safety

Communication and Team Skills

- Personality Dimensions
 - Communication Skills
 - Building Effective Work Teams
 - Customer service
 - Creativity and innovation
 - Business Intelligence tools using Excel
 - Intro to Computers
- Resume updating and interview skills

