**Manufacturing Technician**

**PROGRAM OBJECTIVES**
Prepare individuals for employment as entry level machine operators or production technicians. The program was developed based on industry standards and employer input. This six-week certification program provides a fast track training program designed for individuals motivated to secure a position in the manufacturing industry. Instruction will include small classroom instruction and hands on experience based on industry standards. Students will receive quality instruction with a focus on operating manual and/or CNC equipment, and maintaining quality parts in respect to utilizing safe machining methods. Job placement assistance will also be provided.

**PROGRAM PREREQUISITES**
- OSHA 10 (10 hrs)
- WorkKeys NCRC

**PROGRAM OVERVIEW**
(72 class contact hours) 6 weeks - 12 hours per week

**Industrial Math**

**Blueprint Reading and Interpretation**
- Understand the importance of blue prints and the need in the industry
- Understand the how blue prints are generated
- Understand the features of blueprints, what each are used for & identification

**Dimensional Metrology**
- Learn the nomenclature of semi-precision and precision instruments
- Learn to fluently read and use the following instruments: Tape measure, rule, dial calipers, micrometers, veneer calipers, veneer height gauge, dial height gauge, gauge pins, surface plates, angle plates & indicators

**Machining**
- Learn machining procedures including: Machining Procedures, machine shop safety, eye protection, lock out, machine hazards, manual milling machine, end milling, drilling, reaming, tapping, manual engine lathe, manual cut-off saw, CNC lathe, and CNC mill
- Learn all basic machine shop cutting tools including: Center drills, end mills, taps, and reamers

**In Partnership With:**

**Method of Instruction:**
Lecture/Discussion/Class Demonstration/Labs

**Materials & Supplies included:**
- Laptop Computer
- Microsoft Office Package
- Book: Precision Machining Technology (Cengage) 2nd Edition + Precision Machining Technology with online support resource (Mind Tap software)
- Book: Basic Blueprint Reading and Sketching
- Industrial quality tool set (Caliper/Micrometer/Scale)

**Required Materials:**
- Textbooks
- Pencil
- Calculator
- Safety Glasses
- Flash Drive
- Composition & Spiral Notebooks
- Calipers (provided and included in class cost)
- 6” scale (provided and included in class cost)
- 0-1 micrometer (provided and included in class cost)

**Program Cost = $2,970**
Includes: hands on instruction in manufacturing environment, Precision Machining Technology text book with online support resource (Mind Tap software), laptop computer with Microsoft Office package, jump drive with loaded instructional materials, tool kit (caliper/micrometer/scale), and assistance with job placement.

- College credit for prior learning available upon completion of course

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