

**FREE PRECISION MANUFACTURING COURSES- September 2011**

The Regional Employment Board of Hampden County Inc. (REB) is sponsoring industry specific skills enhancement courses for incumbent employees of precision manufacturing companies in the Pioneer Valley Region. These courses are being offered at no cost to you, and are customized to enhance your work skills and assist you in your responsibilities at your company. A *Technical Certificate of Completion* will be awarded to each employee who successfully completes each course. The Western Massachusetts Chapter of the National Tooling and Machining Association (WMNTMA) supports these course offerings and encourages your participation.

<b>No.</b>	<b>Course Title</b>	<b>Location</b>	<b>Course Description</b>	<b>Schedule</b>
1.	Solid Modeling	Chicopee Comp.	Introduction to Solid modeling using Inventor software. Employees will use the Inventor software to turn sketches into solid models as well as dimensioning, creating features, assemblies, and animations.	<u>WEDNESDAY</u> <u>Sept 21-Nov. 9</u>
2.	Introduction to G-Code Programming	Chicopee Comp.	Basic G-Code programming format, including G-code and M--code functions on the HAAS TL-1 lathe. Common cycles for lathes, facing, turning, threading, radius programming. Students will write G-code programs on a personal computer using notepad. Tooling, speeds and feeds will also be discussed.	<u>MONDAY</u> <u>Sept.19- Nov. 14</u>
3.	Master CAM Programming	Dean Technical	Basic application and use of Master CAM to create drawings and blueprints. <b>ENROLLMENT LIMITED TO TEN (10) EMPLOYEES</b>	<u>TUESDAY</u> <u>Sept 20-Nov. 8</u>
4.	Toolmaking Concepts III 12 Week Course	Dean Technical	Project oriented course. Course will include blueprint reading, manual lathe and "Bridgeport" work, surface and o.d. grinding, C.N.C. milling, programming and set-up, prototrak lathe set-up, inspection and assembly. Employees progress on projects at their own rate. Pre-Requisite: Basic Machining Skills.	<u>WEDNESDAY</u> <u>Sept 21-Dec.14</u>
5.	Geometric Dimensioning & Tolerancing I	Dean Technical	Basic principles of interpreting and inspection setups of Geometric Dimensioning and Tolerancing symbols and their purpose on engineering drawings and blueprints. Pre-Requisite: Ability to Interpret Engineering Drawings	<u>TUESDAY</u> <u>Sept 20-Nov. 8</u>
6.	CNC Set Up & Operation	Valley Steel Stamp (Greenfield)	Basic hands-on set-up and operation for a variety of Computer Numerical Control (CNC) machines/controls. Instruction in Basic G and M codes will be presented.	<u>WEDNESDAY</u> <u>Sept 21-Nov. 9</u>
7.	CNC Swiss Turn Processing and Programming	Citizen Machinery America (Agawam)	Course will focus on the basic methods and theory of creating an efficient process and program for a Swiss-Turn machine. "G" & "M" code lists will be covered, how they work, and when they should be used. Prior knowledge of Swiss turning operation/setup is recommended <b>ENROLLMENT LIMITED TO FOURTEEN (14) EMPLOYEES</b>	<u>TUESDAY</u> <u>Sept 20-Nov. 8</u>
8.	Engineering Graphics with Solid Works (MECH 160)	Springfield Technical Comm. College.	<b>3 Credit College Course- 14 Weeks- 12 Openings Available</b> Overview of Solid Work's sketching environment. Create 2D objects such as lines and arcs. Definition including numerical dimensions and geometric relationships. Pre-Requisite: Familiarity with engineering graphics.	<u>THURSDAY</u> <u>6:00PM-9:45PM</u> <u>Sept. 8-Dec.15</u>
9.	Quality Concepts (MECH 327)	Springfield Technical Comm. College.	<b>3 Credit College Course- 14 Weeks- 12 Openings Available</b> Quality terms and concepts. Continuous improvement techniques relating to human resources and motivational theory, inspection and testing, NCM cycle. Models of implementation such as ISO 9000. QS 9000 will be studied.	<u>WEDNESDAY</u> <u>6:00PM-9:45PM</u> <u>Sept. 7- Dec. 14</u>
10.	Manufacturing Planning and Control (MECH 442)	Springfield Technical Comm. College.	<b>3 Credit College Course- 14 Weeks- 12 Openings Available</b> Overview of production forecasting, product development, control of materials, master scheduling, capacity planning, and inventory techniques.	<u>MONDAY</u> <u>6:00PM-9:00PM</u> <u>Sept.12-Dec. 19</u>
11.	Materials and Manufacturing Processes (MECH 390)	Springfield Technical Comm. College.	<b>3 Credit College Course- 14 Weeks- 12 Openings Available</b> Study of materials including structural properties and heat treat of ferrous and non-ferrous materials, and non-metal materials such as plastics and composites. Rationale for use of various manufacturing processes and advantages of each will be presented.	<u>MONDAY</u> <u>6:00PM-9:00PM</u> <u>Sept.12-Dec. 19</u>

**Schedule Information**

**The courses, with the exception of the courses at STCC and course No. 4, which is a 12 week course, are conducted for 8 weeks, and are held from 5:30 PM-8:00PM. Classes conducted at the vocational technical high schools will NOT be conducted on Monday October 10, 2011 (Columbus Day).**

**You will be notified via regular mail of the status of your Registration for these courses by August 24, 2011. Please retain the top section of this flyer for future use.**

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**Registration Form**

**You may register for more than one course. Please look closely at the course schedule before selecting the course(s).**

**Please circle the course number(s) that you are interested in attending:    1   2   3   4   5   6   7   8   9   10   11**

**Please complete the information below and return this Registration Form by JULY 11, 2011 to David M. Cruise, REB, 1441 Main Street, Springfield, MA 01103 or FAX to 413-755-1364. PLEASE BE ADVISED THAT COURSES FILL UP QUICKLY. PLEASE REGISTER EARLY.**

**PLEASE PRINT**

**Name:** \_\_\_\_\_ **Company:** \_\_\_\_\_

**Home Address: *(Please include the CITY)*** \_\_\_\_\_

**Home Telephone:** \_\_\_\_\_ **E-Mail:** \_\_\_\_\_

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**REB USE ONLY**

**Course:** \_\_\_\_\_ **Course No.** \_\_\_\_\_ **Accepted:** \_\_\_\_\_ **Wait List:** \_\_\_\_\_