



12 WEEK LEAN SIX SIGMA GREEN BELT AND PROJECT SUPPORT COURSE

Smyth Education Center

Begins: August 24, 2010

8:30 a.m. – 12:30 p.m. weekly

\$3,195 PP or \$2,995 PP if two or more from company or organization

The [Manufacturing Technology Center](#) offers a 12-week course of Lean Six Sigma Green Belt Training and Project Support. The course presents the Lean SS Green Belt body of knowledge in a hands-on, application oriented manner. Lean SS Green Belt tools will be demonstrated using a project simulation that takes the participant through the D-M-A-I-C process improvement methodology.

The format of this course was developed around a Train-and-Do approach. Participants will meet weekly, 8:30 am – 12:30 pm for the classroom part of the course. The meeting day and location will be determined to fit the needs of the participants. Classroom activities will include a combination of lecture and hands-on simulation exercises.

Each participant will be **required** to have a job related and sponsor approved project, which should be selected prior to the start of the class. The course agenda is intended to lead participants through completion of **their** individual project. MTC instructors will provide weekly, on-site support to mentor and coach the participants through the completion of these company specific projects.

Course Objectives

- Present the Lean Six Sigma Green Belt body of knowledge
- Demonstrate the use of Six Sigma tools through a hands-on simulated project
- Follow the D-M-A-I-C project methodology
- Have each participant complete a job related project with measurable impact
- Train-and-Do approach
- Weekly, 4 hour class meetings
- Community College Continuing Education Units (CEU's) awarded

Training Topics

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| • Intro to Lean Six Sigma | • DMAIC |
| • Team Charter | • Cause & Effect Diagram |
| • Project Selection | • $Y=f(x)$ |
| • Process Mapping | • Fault Tree Analysis |
| • MSA | • Project Document |
| • Pareto Analysis | • Process Capability |
| • Regression Analysis | • Statistical Process Control |
| • Gage R & R | • DMAIC |
| • Variation | • Value Stream Mapping |
| • Principles of Lean Manufacturing | • Pull Kanban |
| • Elimination of Waste | • 5S System |

To register, please contact **Linda Newman** at (276) 223-4709 or wnewml@wcc.vccs.edu.

