



## 14- WEEK CERTIFIED LEAN SIX SIGMA **GREEN BELT** (5.6 CEU's)

This course is being offered using Zoom Video and Audio Conferencing  
(Includes a Project Completion and \*ASQ Exam)

**Dates of Course: February 23 – May 25, 2021**  
**Tuesdays: 8 a.m. – 12 Noon**

### CERTIFIED LEAN SIX SIGMA GREEN BELT



#### TRAINING TOPICS

- Intro to Lean Six Sigma
- Project Selection/Project Charters
- Process Mapping
- MSA/Gage R&R studies
- Pareto Analysis
- Variation / Standard Deviation & Range
- Principles of Lean Manufacturing
- Elimination of Waste
- DMAIC Process
- Cause & Effect Diagrams
- Y=f(x)
- Fault Tree Analysis
- Project Documentation/Control Plans
- Process Capability/Cp/Cpk
- Statistical Process Control
- Value Stream Mapping
- Kanban/5S/Standard Work
- SIPOC
- DOE (Full Factorial)
- Hypothesis Tests (Sample T test)
- Probability & Statistics



The Manufacturing Technology Center in partnership with Southwest Virginia Community College is offering a 14-week Certified Lean Six Sigma Green Belt and Project Support course. Class consists of fourteen 4-hour classes. The course presents the ASQ Certified Lean Six Sigma Green Belt body of knowledge in a simulation workshop application-oriented manner and includes a project simulation that takes participants through the D-M-A-I-C process improvement methodology. The Train-and-Do process uses classroom activities, combining lecture and simulation exercises to prepare students to pass the ASQ Certified Six Sigma Green Belt exam and lead continuous improvement projects.

The course is intended to teach the Certified Lean Six Sigma Green Belt body of knowledge while leading participants through completion of an individual project. MTC instructors will provide weekly support to mentor and coach participants through the completion of projects and prep students for \*ASQ exam.

\$2,400 per student. \*Please contact your local Community College Workforce Development Office to ascertain if there are any grants available to subsidize costs.

#### NOTES:

Course fee includes a copy of a *Certified LSSGB Primer*, *Certified LSSGB Solutions Text*, cost of the ASQ certification exam, 1-year ASQ Membership, and exam preparation.

#### REQUIREMENT:

3-years of full-time work experience is required to take the ASQ Exam.

Each Green Belt participant is required to complete a job-related and sponsor-approved project which should be selected prior to the start of the class.

Minimum of an Associate Degree in a business or technology related field and previous exposure to basic statistics.