Show your commitment to reducing costs, improving processes, and streamlining projects by earning your Six Sigma Green Belt Certificate! Designed for professionals with some exposure to Statistical Process Control (SPC) (construct a X-bar and R chart), this six session Green Belt course builds a foundation of critical skills and strategies that set business leaders apart and improve bottom line results.

Tuition
$2750 per student. Fee includes: training materials; lunch and refreshments each day. Send 3 or more from the same company and save $450 each. Call 507-389-7203 for discount code.

Course Prerequisites
Students should have some prior experience with Six Sigma methodologies including basic exposure to Statistical Process Control (SPC), ie. how to construct a X-bar and R chart.

The training has a manufacturing focus, it is recommended you have access to a manufacturing and/or assembly environment. Access to a “proving ground” will benefit you when completing your capstone project which is due eight weeks after the session II.

Join other Six Sigma leaders who have made a measurable difference!

Class Title | Date(s) | Time | Location | Cost
--- | --- | --- | --- | ---
Six Sigma Green Belt Certification | SESSION I: Tues.-Thurs. August 4, 5, & 6, 2015 | 8:00 a.m. - 4:30 p.m. | South Central College 1920 Lee Blvd., North Mankato | $2,750

SESSION II: Tues.-Thurs. August 18, 19, & 20, 2015 | 8:00 a.m. - 4:30 p.m. | South Central College 1920 Lee Blvd., North Mankato |
Six Sigma Green Belt Certification

Program Outline - DMAIC Process

Step I - Define the Problem
- Why Six Sigma
- The History of Six Sigma
- Roles of Champions, Black Belts and Green Belts
- Overview of Process Improvement Strategies
- The Six Sigma DMAIC Strategy
- Forming a Problem Statement
- Choosing an Important Problem - Pareto Analysis and Pie Charts
- Selecting a Process Improvement Team

Step II - Measure the Process
- Process Mapping - Flowcharts and Workflow Diagrams
- Basic Statistics - Location vs. Variation and Histograms
- Verifying the Inspection Process
- Attribute Control Charts
- Data Collection Techniques and Sampling Strategies
- Check Sheets, Concentration Diagrams and Matric Diagrams
- Bottlenecks and First-time Yield

Step III - Analyze the Problem
- The 5W’s and 2H’s and the 5 Why’s Approach
- Brainstorming and Cause-and-Effect Diagrams
- Multi-voting and Decision Making by Consensus
- Verifying a Chosen Cause with Scatter Diagrams
- Analysis of Means and Success Testing

Step IV - Improve the Process
- Developing Feasible and Economical Solutions
- Solution FWEA and Pilot Studies
- Project Management - Gantt Charts and Arrow Diagrams
- Implementing the Solution and Managing Change

Step V - Control the Process
- Control Charts - Attribute Data
- Corrective Action Plans, Audits and Work Instructions
- Mistake Proofing - Poka-Yoke
- Preserving the Process Knowledge Gained
- Kaizen for Continuous Improvement
- Starting a New Process Improvement Journey

Instructor Profile
Davis Bothe

Davis Bothe has over 28 years of experience working, teaching and consulting in the field of process improvement. His credentials include: ASQ Fellow, IQI Certified Master Black Belt, ASQ Certified Quality Engineer, ASQ Certified Reliability Engineer, member of the U.S. Technical Advisory Group to the ISO Technical Committee 69 on Application Statistical Methods, B.S. Degree in Applied Math and Physics and an MBA.

He has served on ASQ’s National Education Board, has reviewed books, videotapes and software for ASQ’s Quality Press and is on the editorial review board for the International Journal of Six Sigma. In addition to authoring the quality improvement books: Industrial Problem Solving, Measuring Process Capability, and Reducing Process Variation, many of his articles have been published in various quality journals. An internationally known lecturer, he is listed in the 13th edition of the International Who’s Who in Quality. Davis has worked as a system analyst for NASA, a statistical engineer for General Motors (where he supervised numerous process-improvement teams) and as an Adjunct Professor of Statistics for Eastern Michigan University. Currently, he serves as the Director of Quality Improvement for the International Quality Institute, which has offices in Milwaukee, WI and Sacramento, CA.

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