

Office for Educational Outreach

"LEAN SIX SIGMA" Certificate Training - Fall 2009 - Spring 2010

Lean Six Sigma Methodology integrates Six Sigma DMAIC Training for Process Improvement with Lean Enterprise Training for Value Stream Management.

PROFESSIONAL CERTIFICATIONS:

GREEN BELT – Complete all required assignments, projects and exams with a cumulative score of at least a grade of B in each of the three required courses.

BLACK BELT – Complete the Green Belt Certificate requirements and an industry-focused project(s) with instructor and industry-sponsor approval. The industry-focused project(s) will then be due within 24 months from the completion of the courses and will document a minimum \$150,000 annualized savings to the industry-sponsor.

TRAINING REQUIREMENTS:

Course 1 – Choose from the Manufacturing Focus or the Transactional-Service Focus.

Manufacturing Focus: (Sign up for QS 2650 for the College Credit option OR the JIT 100 and JIT 101 modules for the Continuing Education non-credit option.) Topics include:

(1) JIT 100 – Basic Lean Manufacturing Process Improvement

- 5S Workplace Organization and Standardization
- Visual Control
- Total Productive Maintenance
- Quick Changeover
- Mistake-Proofing

(2) JIT 101 - Value Stream Management for Lean Manufacturing

(Requires a team project and presentation)

- Product Quantity and Routing Analyses
- Waste Walk and Current State Mapping
- Lean Manufacturing Assessment and Lean Metrics
- Future State Mapping (Customer Demand, Continuous Flow, and Leveling stages)
- Kaizen Plans

Transactional-Service Focus: (Sign up for BAT 2050 for the College Credit option OR the BPI 100 and BPI 102 modules for the Continuing Education non-credit option.) Topics include:

(1) BPI 102 – 5S for Service Organizations and the Lean Office (Requires a team project and presentation)

- Sort (organization)
- Set in Order (orderliness)
- Shine (cleanliness)
- Standardize (standardize the 1st 3Ss)
- Sustain (discipline)

(2) BPI 100 – Structured Problem-Solving for Transactional Process Improvement (Requires a team project and presentation)

- Describe the Problem
- Describe the Current Process
- Identify and Verify the Root Causes
- Develop a Solution and Action Plan
- Implement the Solution
- Review and Evaluate
- Reflect and Act on Learnings

Course 2 – (Sign up for STAT 2000 for the College Credit option OR EI 102 for the Continuing Education non-credit option.) It is integrated with basic statistical tools and applications using Minitab software.

NOTE: Courses 1 and 2 may be taken in any sequence, but Course 2 must be completed before starting Course 3.

Course 3 – (Sign up for QS 3600 for the College Credit option OR EI 103 for the Continuing Education non-credit option.)

It covers the five stages of the DMAIC (Define, Measure, Analyze, Improve, and Control) Methodology and is integrated with advanced statistical tools and applications using Minitab software and Six Sigma project management using Quality Companion software. (Requires a team project and presentation)

- An Overview of the Lean Six Sigma Methodology,
- MINITAB Measurement Systems Analysis,
- MINITAB SPC Control Charting and Capability Studies,
- Process Failure Mode and Effect Analysis,
- MINITAB Six Sigma Design of Experiments

FALL SEMESTER 2009

Course 1 – Transactional-Service Focus

College Credit option

BAT 2050 – Mon 7-10 p.m., Aug 24-Dec 14,
(no classes Sept 7 & Oct 12)
\$618 fee, and texts \$58 plus tax

Continuing Education non-credit option

BPI 102 – Mon 7-10 p.m., Aug 24-Oct 19
(no class Sept 7 & Oct 12)
\$295 fee, and text \$45 plus tax

BPI 100 – Mondays 7-10 p.m.
Oct 26-Dec 14, \$323 fee
text \$13 plus tax

Course 1 – Manufacturing Focus

College Credit option

QS 2650 – Wed 5:30-9:30 p.m., Aug 26-Dec 17,
(no class Nov 25)
\$618 fee, and texts \$23 plus tax

Continuing Education non-credit option

JIT 100 – Wed 5:30-9:30 p.m., Aug 26-Sept 30,
\$235 fee, text \$23 plus tax

JIT 101 – Wed 5:30-9:30 p.m., Sept 30-Dec 16,
(no class Nov 25)
\$383 fee, and same text as JIT 100

Course 2 -

College Credit option

STAT 2000 – Tue & Thurs 11:30-1:00 p.m., Aug 25-Dec 15 (no
classes Oct 13 & Nov 26)
\$618 fee, texts \$78 plus tax
and software: lease for \$30 or buy for \$100

Continuing Education non-credit option

EI 102 – Tue & Thurs 11:30-1:00 p.m., Aug 25-Dec 15,
(no classes Oct 13 & Nov 26), \$618 fee, texts \$78 plus tax, and
software: lease for \$30 or buy for \$100

SPRING SEMESTER 2010

Course 1 – Transactional-Service Focus

College Credit option

BAT 2050 – Tue & Thurs 8-9:30 a.m., Jan 12– May 4, (no classes
Mar 9 and 11), \$618 fee, and texts \$58 plus tax

Continuing Education non-credit option

BPI 102 – Tue & Thurs 8-9:30 a.m., Jan 12-Feb 25,
\$295 fee, and text \$45 plus tax

BPI 100 – Tue & Thurs 8-9:30 a.m., Mar 2-May 4
(no classes Mar 9 and 11)

\$323 fee, and text \$13 plus tax

Course 1 – Manufacturing Focus

College Credit option

QS 2650– Mon & Wed 9:30-11:30 a.m., Jan 12-May 6
(no classes Jan 21, Mar 9 & 11)
\$618 fee, and texts \$23 plus tax

Continuing Education non-credit option

JIT 100 – Mon & Wed 9:30-11:30 a.m., Jan 12-Feb 23
(no class Jan 21)
\$235 fee, and text \$23 plus tax

JIT 101 – Mon & Wed 9:30-11:30 a.m., Feb 25-May 6
(no classes Mar 9 & 11)

\$383 fee, and same text as JIT 100

Course 2 -

College Credit option

STAT 2000– Wed 7-10 p.m., Jan 13-May 5
(no class Mar 10)
\$618 fee, texts \$78 plus tax
and software: lease for \$30 or buy for \$100

Continuing Education non-credit option

EI 102 – Wed 7-10 p.m., Jan 13-May 5
(no class Mar 10)
\$618 fee, texts \$78 plus tax
and software: lease for \$30 or buy for \$100

Course 3 (only conducted during the Spring Semester)

College Credit option

QS 3600 – Tues 5:30-9:30 p.m., Jan 12-May 4
(no class Mar 9)
\$618 fee, text \$74
and software: lease for \$60 or buy for \$200

Continuing Education option

EI 103 – Tues 5:30-9:30 p.m., Jan 11-May 4
(no class Mar 9)
\$618 fee, text \$74
and software: lease for \$60 or buy for \$200

For more information contact
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