

## Why Earn an e-Zsigma Lean Six Sigma Black Belt?

Lean Six Sigma continues to be the most widely recognized and successful business process improvement strategies in the world today.

As a result, Lean Six Sigma Black Belts are a highly sought after resource in Canada as well as worldwide. Earning your e-Zsigma (Canada) Inc. Black Belt will enable you to join the ranks of thousands of Lean Six Sigma specialists who differentiate themselves by being able to lead high-impact process improvement and design projects that consistently drive measurable benefits to their global organizations.

- ✓ World-class international Lean Six Sigma Master Black Belt instructors
- ✓ Comprehensive, integrated curriculum
- ✓ 16-day program blends Lean Six Sigma tools & methods with change management & project management
- ✓ Final examination & Certificate of Completion
- ✓ Post-training support and on-site coaching available on request

### WHO SHOULD ATTEND?

- Analysts, program & project managers
- Quality managers & directors
- Continuous improvement leaders
- Product & service managers

### COURSE REQUIREMENTS

Registrants will require a notebook computer configured with Microsoft® Excel and Adobe® Acrobat Reader. ProcessMA™ statistical and graphical analysis software is included in registration fees and will be provided at the start of training – a **\$300.00 value**.

## 2010 TRAINING CALENDAR

### TORONTO SESSIONS:

#### Session ID - BB066

Week 1: March 15-18, 2010

Week 2: April 19-22, 2010

Week 3: May 17-20, 2010

Week 4: June 14-17, 2010

#### Session ID - BB067

Week 1: October 18-21, 2010

Week 2: November 15-18, 2010

Week 3: December 13-16, 2010

Week 4: January 17-20, 2011

Students completing this will be eligible to receive **PDU** credits from the Project Management Institute (**PMI**) and/or **CPDL** credits from the Society of Management Accountants (**CMA**).

Register on-line at [www.e-zsigma.com](http://www.e-zsigma.com)

Email for information: [sales@e-zsigma.com](mailto:sales@e-zsigma.com)

*Cancellation: All e-Zsigma courses require a minimum number of registrations and are subject to cancellation based on insufficient demand. In the event of cancellation or change, registrants will be eligible for a full refund of any registration fees paid to e-Zsigma.*

### On-Site Lean Six Sigma Black Belt Training Available to fit your schedule!

Need a schedule that is flexible to your needs and accommodates training for all of your management team? For on-site Black Belt Training, please contact e-Zsigma (Canada) Inc.



### e-Zsigma (Canada) Inc.

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## 16-Day Lean Six Sigma Black Belt

TORONTO, CANADA



*“Lean Six Sigma:  
Building tomorrow’s  
leaders... today!”*



e-Zsigma (Canada) Inc.

*“Canada’s Own” for Lean Six Sigma*

## LEAN SIX SIGMA BLACK BELT

The Black Belt program consists of over 60 interactive workshops that provide participants with the foundation for Lean Six Sigma project success, including statistical and analytical tools, as well as change management, leadership, and project management skills.

Lean Six Sigma Black Belts will be able to lead complex continuous improvement projects and apply waste-banishing lean concepts and tools, advanced statistical tools to analyze process variation, and test design models that will enable breakthrough improvements, greater process capability as well as process optimization.

Employing an Adult Learning Model, participants can apply newly-acquired Lean Six Sigma tools and methods to actual process improvement projects over the course of training, enabling immediate benefit from your Lean Six Sigma training investment.

The Black Belt curriculum consists of sixteen days of training that is conducted over a four month training cycle: Session 1 (4 days), Session 2 (4 days), Session 3 (4 days), Session 4 (4 days). Trainees will be required to spend time between sessions applying the concepts and tools learned to their assigned process improvement project, as well as preparing for their next training session.

At the end of each session of training, participants will develop an action plan for their projects, which will be reviewed by their Master Black Belt instructor. If necessary, additional project coaching after the completion of Session 4 training can be arranged.

After successfully completing the course, students will receive a Lean Six Sigma Black Belt Certificate suitable for framing and will be eligible to write the Lean Six Sigma Certification Examination.

## ABOUT LEAN SIX SIGMA BLACK BELT

"The course was both interesting and informative and gave me the basis for implementing Six Sigma where I work. The instructors did a great job of keeping the material easy to understand. Their extensive hands-on experience and practical real-life examples along with their assistance with each student's Six Sigma project made the classroom learning environment that much more effective. Thank you, e-Zsigma, for a great learning experience!"

-Dennis Silva, Plant Manager

"What an enjoyable experience! I'm glad to have chosen e-Zsigma after comparing it to the ASQ's (American Society for Quality) on-line training option. The instructor has been wonderful - he has truly simplified and made practical what could have been difficult to understand. I guess that's why you call yourselves e-Zsigma."

-Rob Chung, Quality Manager

"When you put Six Sigma in the hands of smart people, it is incredible what they can do with it."

-Bruce Miyashita, VP Six Sigma  
Maple Leaf Foods Inc.

"Six Sigma is a comprehensive approach that improved our ability to apply the right tools at the right time to develop well rounded project facilitators and to complete initiatives in a more timely and effective manner."

-Ted Laks, VP Six Sigma  
Noranda Inc./Falconbride

"In 2007, Lean methodologies were added to our Six Sigma efforts. This combination has created a more robust approach to our continuous improvement efforts as we maintain our relentless focus on the elimination of waste in all our processes."

Air Canada Jazz

### Fees (Includes ProcessMA™ Software)

Per person: CAD\$9,995.00

3 or more people: CAD\$8,995.00

## COURSE OUTLINE IN BRIEF

### Week 1: Define

- define & scope project charters
- process mapping, root cause analysis
- complete preliminary measurement and process capability analysis
- understanding of use & application of Six Sigma tools and methodology
- process descriptive statistics & visualization
- The sources of waste & Lean processes
- project management & change management

### Week 2: Measure

- forced ranking systems & Pareto Charts
- frequency distributions & histograms
- yield & capability studies
- assessing process variation
- process flow, value stream & spaghetti maps
- sample sizes & confidence intervals
- data collection and sampling plans
- risk assessments (FMEA, FTA)
- measurement system analysis (MSA)

### Week 3: Analyze

- root cause analysis
- graphical tools to explore data
- normality testing & data transformation
- binomial & Poisson distributions
- hypothesis testing (F, t, chi, non-parametric, etc)
- regression analysis
- analysis of Variance & ANOM
- multivariate analysis
- Takt time, flow, pull, value-added analysis, etc.

### Week 4: Improve & Control

- design of experiments (DOE)
- historical DOE
- process rationalization
- mistake-proofing, rapid change-over (SMED)
- kaizen, 5S, standard work, cell layout
- design for Lean Six Sigma
- visual workplace & visual controls
- control plans and control charts
- project closeout and final reports