Welcome!

Where you are from?

What Industry?

Let us know in the Chat

Lean Sigma Black Belt
Virtual Training Information Session
Fall 2023
Agenda

- Welcome & Introductions
- What is Lean Sigma Process Improvement?
- Training Model
- Project Selection Workbook
- Questions
What is Lean Sigma

- A process focused, data driven, team-based problem-solving method and tool set
- All Businesses contain numerous processes!
What is Lean Sigma

- And some processes can be painful!
What is Lean Sigma

- Lean Sigma is **Process Improvement**
- Working **ON** the process versus **IN** the process
What is Lean Sigma

When seeking a Process Improvement project, we are typically focusing on:

- Better
- Faster
- Safer
- Lower Cost
What is Lean Sigma

Defining Lean
“A method for systematic identification and elimination of Non-Value Added Activities, a.k.a. waste.”

Key Phrase: Waste increases Cycle Time

Defining Six Sigma
“A problem-solving method that focuses on eliminating defects caused by variation in the processing activities.”

Key Phrase: Variation causes Defects
Lean Sigma: Simplify then Perfect

1st Simplify
by eliminating waste

2nd Perfect
Reduce Variation
that causes defects
The DMAIC Method

- The 5 Step DMAIC Problem-Solving Method:

  - **Define** — *Clearly articulate the problem in measurable terms*

  - **Measure** — *Verify Metric & Gage, Identify potential root causes, collect data, determine capability baseline*

  - **Analyze** — *Identify the critical few root causes*

  - **Improve** — *Change the critical few, improving the process*

  - **Control** — *Maintain the Gain!*

Define ➔ Measure ➔ Analyze ➔ Improve ➔ Control
Training Model – Live + Self Paced

Training model minimizes interruption to your work schedule while maintaining a cadence to deliver project results in 5 months

- 11 Live training session of 4.0 hours with Case Studies & tool application in class in workgroups

- Use of CANVAS LMS Platform to manage the Learning Experience:
  - Online Assignments - submitted weekly relevant to your project progress
  - Discussion Boards – share your experiences and learn from your classmates
  - Weekly Quizzes to reinforce your learnings
  - Supplemental Training Material, Video Lectures, Templates and Case Studies

- 3 separate one-on-one Project Coaching opportunities with your Instructor
- Final Project Presentation 2 months after close of course
## Training Model – Class Schedule

- **12 Weeks in Duration (Break for Thanksgiving)**
- **Kickoff Session Monday 9/18/2023**
- **Every Wednesday from 9/20 – 12/06/2023**
- **1:00pm to 5:00pm Mountain Time**

<table>
<thead>
<tr>
<th>Week #</th>
<th>Topic</th>
<th>Wednesday</th>
<th>Time - MT</th>
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<tbody>
<tr>
<td>0</td>
<td>1 Hour KICKOFF - Project identification &amp; qualification</td>
<td>Monday 9/18</td>
<td>1:00pm-2:00pm</td>
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<tr>
<td>1</td>
<td>Roles, Project Charter &amp; Metric, SIPOC</td>
<td>9/20/2023</td>
<td>1:00pm-5:00pm</td>
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<td>2</td>
<td>OEE, VSM Part 1, Initial Data Analysis, Brainstorming</td>
<td>9/27/2023</td>
<td>1:00pm-5:00pm</td>
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<td>3</td>
<td>Process Mapping, 5 Why, Basic Statistics, Cycle Time</td>
<td>10/4/2023</td>
<td>1:00pm-5:00pm</td>
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<td>4</td>
<td>Operational Definitions, Gage R&amp;R</td>
<td>10/11/2023</td>
<td>1:00pm-5:00pm</td>
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<td>5</td>
<td>Data Collection, Sampling Plan, SMED, Normality Testing</td>
<td>10/18/2023</td>
<td>1:00pm-5:00pm</td>
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<tr>
<td>6</td>
<td>VSM Part 2, Reliability Engineering, Capability Analysis</td>
<td>10/25/2023</td>
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<td>7</td>
<td>Hypothesis Testing, Chi Square, 2t Test, ANOVA</td>
<td>11/1/2023</td>
<td>1:00pm-5:00pm</td>
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<td>8</td>
<td>Fitted Line Plot, Multiple Linear Regression, Hypothesis Testing Plan</td>
<td>11/8/2023</td>
<td>1:00pm-5:00pm</td>
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<td>2K Full and Fractional Factorial DOE</td>
<td>11/15/2023</td>
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<td><strong>Thanksgiving break - NO CLASS</strong></td>
<td>11/22/2023</td>
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<td>10</td>
<td>Identifying and Implementing Solutions, SPC Intro, I-MR Charts</td>
<td>11/29/2023</td>
<td>1:00pm-5:00pm</td>
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<td>11</td>
<td>Xbar&amp;R Charts, P Charts, Control Plan, Project Closure &amp; handoff</td>
<td>12/6/2023</td>
<td>1:00pm-5:00pm</td>
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**FINAL Project Presentations**

2/14/2024  8:00-?
Benefits of Partnering with UNM & TAGI

- **University of New Mexico**
  - Regional Leader in Continuing Education
  - National recognized University of Excellence

- **Instructor Track Record of success**
  - Facilitated over 100 Black Belt and Green Belt Classes in 10 countries
  - In the recent 12 Months, 5 classes with an 85% certification rate and a median per project savings of $144,000
  - Exceptional reviews – rated consistently in the top 10% of instructors

- **No additional software required!**
  - Over 100 Excel worksheets including tool templates, metric trackers, graphical analysis, statistical analysis and DOE

- **Personal teaching and coaching throughout the project life cycle**

- **Career enhancing skills and certifications**
An indispensable element of the training is your Lean Sigma Project:

- Chosen from your own work environment
- Scoped for completing in 5 months
- Will be worked in conjunction with the training course
- Is fit for purpose for the use of the Lean Sigma DMAIC project
- Minimum savings of $50,000 in the first year after completion

- In order to facilitate your Project identification and selection before class begins, we have developed the “Project Selection Workbook”, distributed 2 weeks prior to the start of class.
- As a thank you for attending today’s session, we will be distributing this now to attendees via the Chat in Zoom!
Questions?