Why Am I Here?
Learning Objectives

At the end of this module, participants will be able to:

- Name the Instructors and others in class
- Identify class VALUE and VALUE PIL scores
- Align with course expectations and course schedule
Icebreaker

• Spend 10 minutes getting to know your tablemates
  • Name
  • Affiliation
  • Birth month and day
  • VALUE or VALUE PIL score
  • Why they are here

• One person will spend 2 min introducing their tablemates and the average VALUE (PIL) score
  • Introducer will be selected by birth month/day

• Instructors will each join a table
Lean Concepts, Terms and Tools You Will Learn

- 5 Whys
- 6S
- 8 wastes
- A3 thinking and tool
- Andon
- Balanced work
- $C_p$, $C_{pk}$
- Capacity, throughput, queuing, bottleneck
- Cause and effect diagrams
- Check lists/sheets
- Control charts
- Current state
- Customers (external & internal)
- Cycle time
- DMAIC
- Enterprise stakeholders
- Enterprises
- Flow
- Future state
- Gemba (genba)
- Genchi genbutsu
- Histograms
- Integrated teams
- Kanban
- Kitting
- Lean is a journey
- Lean is a way of thinking
- Little’s law
- Mistake proofing
- Muda, muri, mura
- Non value-added time
- Pareto charts
- Plan-do-study-act (PDSA)
- Process maps
- Processing time
- Pull
- Relational coordination
- RPIW
- Single piece flow
- Spaghetti diagrams
- Stakeholder value
- Standard work
- Takt time
- Three actuals
- Time value charts
- UCL, LCL
- USL, LSL
- Value added, non-value added, waste
- Value streams
- Value stream mapping and analysis (VSMA)
- Variation impact
- Visual control
- Wait time
- ..... and more
Day 1 of Your Lean Journey

LEVEL 1 - AWARE:
To have experienced or been exposed to
- Have I had some organized introduction or instruction to these topics?
- Have I used some of these topics in my work?
- Can I tell myself what these topics really mean?

Count the number of items on the previous page for which you can answer Yes to one of the above rubrics.
Class Poll

How many Lean Concepts, Terms and Tools covered in the course are you now at a level of AWAREness?

- Less than 10
- 10 to 19
- 20 to 29
- 30 to 39
- 40 or more

Hold up the colored 3 x 5 card of your answer
Class VALUE Profile (n=12)

"Before" Student Proficiency Level

0  1  2  3  4  5

- Context for Lean implementation
- Definition of Lean
- Process concepts
- Five fundamental principles of Lean Thinking
- Lean tools and concepts
- Lean office principles
- Lean engineering principles
- Lean supply chain management principles
- Lean enterprise principles
- Quality and Six Sigma
- Role of people and organizations
- Lean implementation
- VALUE Proficiency level

• Class members are UNAWARE
• Average level is almost AWARE
• Greater proficiency in context and people areas
Value of The LAI Lean Academy® Course

• You will gain a basic understanding and working knowledge of lean six sigma fundamentals
• You will gain an appreciation and insight into important enterprise level topics
• Few courses are available that cover the material in the LAI Lean Academy sessions
• Employers want their employees to have this knowledge and training
• Bottom line: At the end of the course, you will be better prepared to contribute to your current or future organization’s lean journey
Plan on about 1 hour of homework tomorrow night
LAI Lean Academy® Course Learning Objectives

At the end of this course, participants will be able to:

1. Articulate the fundamental lean six sigma concepts applicable across an enterprise
2. Apply basic lean and quality tools and techniques
3. Summarize why people are the heart of a lean enterprise
4. Explain the challenges & benefits of implementing lean concepts throughout an enterprise
5. Participate in and contribute to an organization’s continuous improvement program
“Run Rules” for the Course

- Be here for all sessions, and be on time
- Minimize disruptions (cell phones and laptops off!)
- Ask questions!
  - Questions during sessions are welcome - only caveat is answers may have to be limited due to schedule
  - Instructors will be available on breaks, lunch, etc. for individual questions
  - Use “muddy cards” (3x5) for feedback, general questions or concerns
- Photos – turn in signed photo release forms or let us know if you prefer not to be in a photo.
- Maintain an environment of mutual respect
- Have fun!
16.660J / ESD.62J / 16.853 Introduction to Lean Six Sigma Methods
IAP 2012

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