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Lean Sigma Black Belt
Virtual Training Information Session
Fall 2023

The Athon Group, Inc.

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!

♦ **And some processes can be painful!**

What is Lean Sigma

- ◆ Lean Sigma is <u>Process Improvement</u>
- ◆ 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_

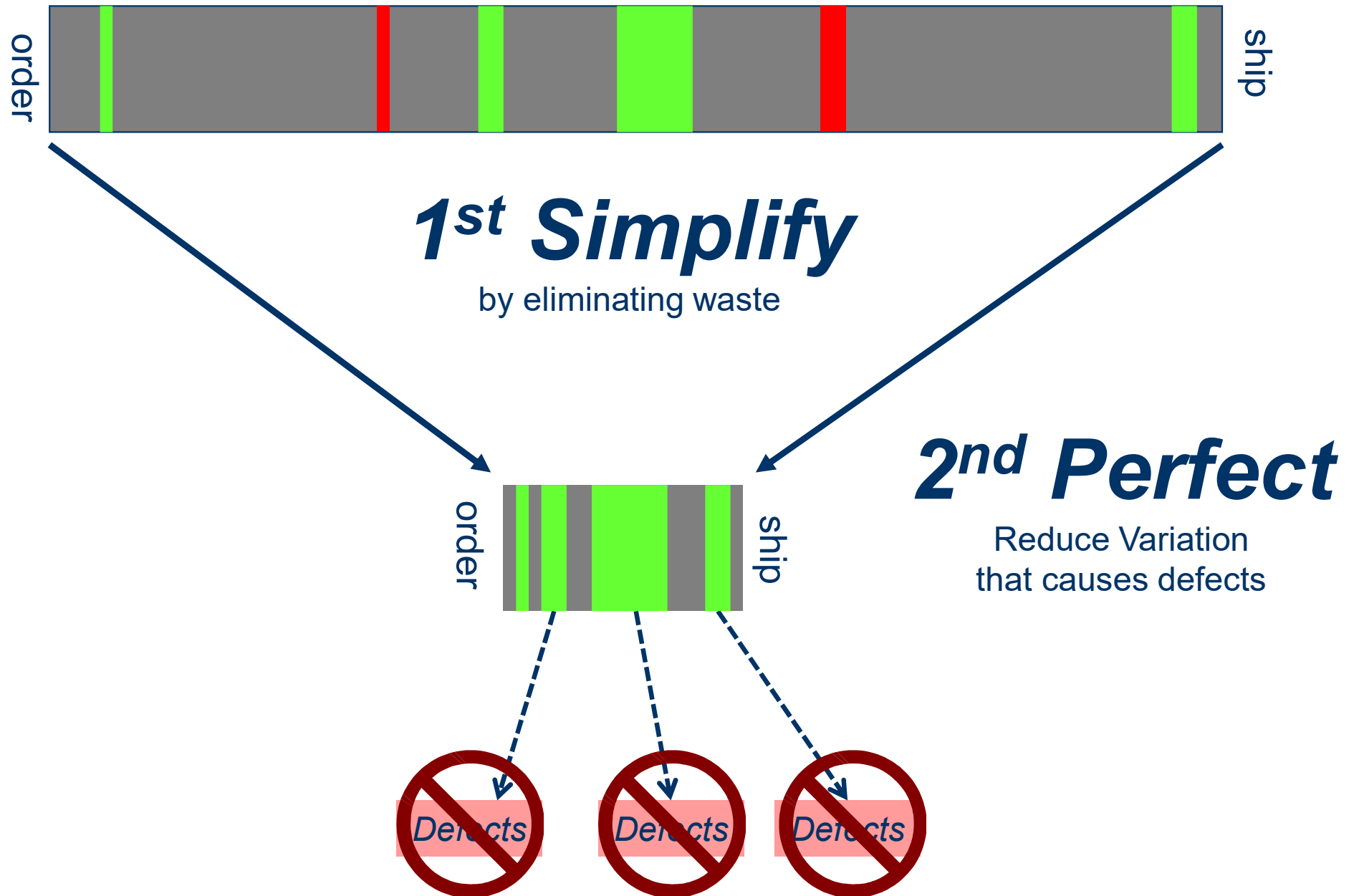## Defining Six Sigma

"A problem-solving method that focuses on eliminating defects

caused by variation in the processing activities."

Key Phrase: _Variation_ causes _Defects_

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Lean Sigma: Simplify then Perfect

order
ship

1st Simplify

by eliminating waste

order
ship

2nd Perfect

Reduce Variation
that causes defects

Defects *Defects* *Defects*

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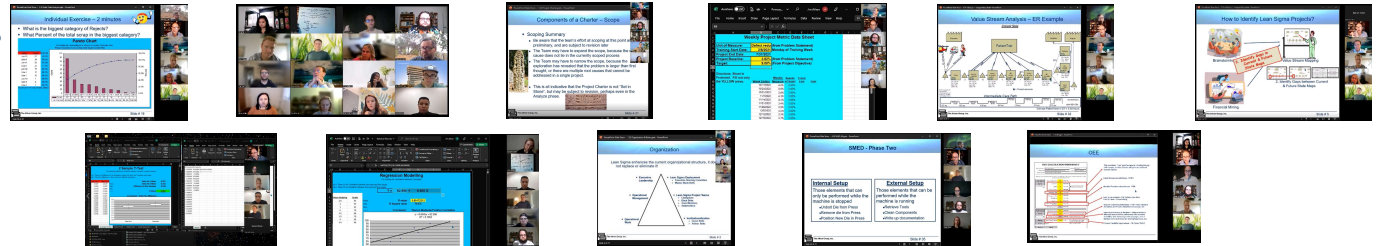
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The DMAIC Method

◆ **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*

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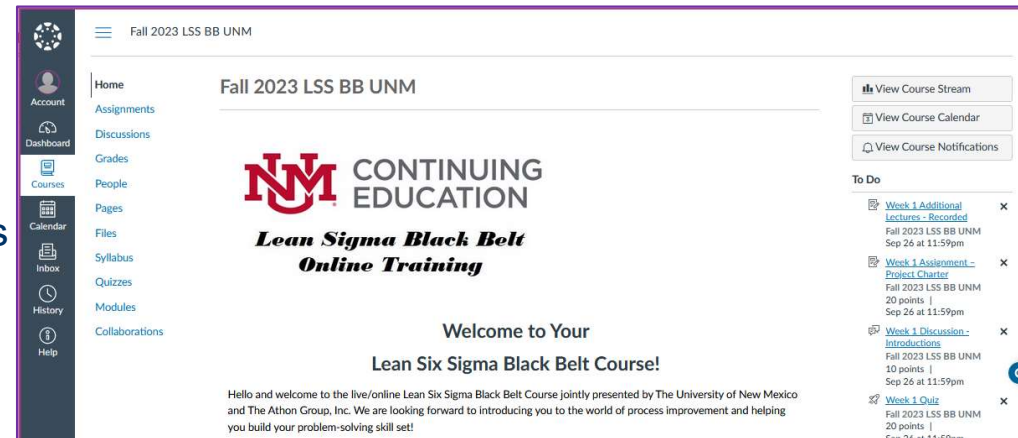
Training Model – Live + Self Paced

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

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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

Week #	Topic	Wednesday	Time - MT
0	1 Hour KICKOFF - Project identification & qualification	Monday 9/18	1:00pm-2:00pm
1	Roles, Project Charter & Metric, SIPOC	9/20/2023	1:00pm-5:00pm
2	OEE, VSM Part 1, Initial Data Analysis, Brainstorming	9/27/2023	1:00pm-5:00pm
3	Process Mapping, 5 Why, Basic Statistics, Cycle Time	10/4/2023	1:00pm-5:00pm
4	Operational Definitions, Gage R&R	10/11/2023	1:00pm-5:00pm
5	Data Collection, Sampling Plan, SMED, Normality Testing	10/18/2023	1:00pm-5:00pm
6	VSM Part 2, Reliability Engineering, Capability Analysis	10/25/2023	1:00pm-5:00pm
7	Hypothesis Testing, Chi Square, 2t Test, ANOVA	11/1/2023	1:00pm-5:00pm
8	Fitted Line Plot, Mulitple Linear Regression, Hypothesis Testing Plan	11/8/2023	1:00pm-5:00pm
9	2K Full and Fractional Factorial DOE	11/15/2023	1:00pm-5:00pm
	Thanksgiving break - NO CLASS	11/22/2023	
10	Identifying and Implementing Solutions, SPC Intro, I-MR Charts	11/29/2023	1:00pm-5:00pm
11	Xbar&R Charts, P Charts, Control Plan, Project Closure & handoff	12/6/2023	1:00pm-5:00pm
	FINAL Project Presentations	2/14/2024	8:00-?

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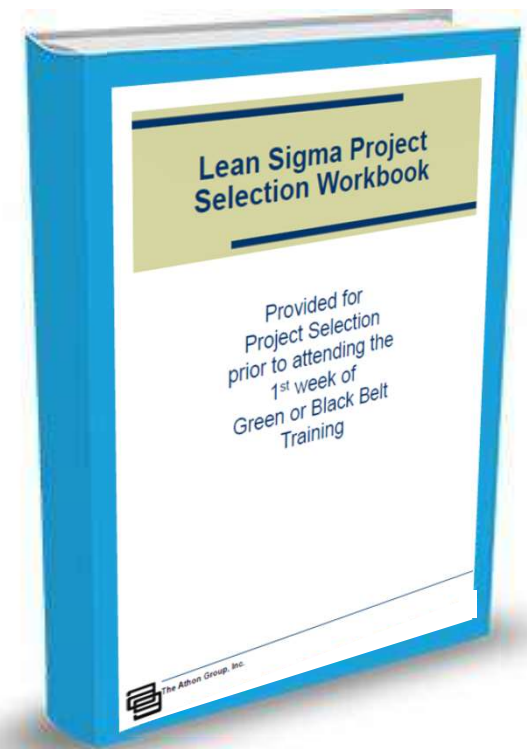
Benefits of Partnering with UNM & TAGI

- **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**

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Project Selection Workbook

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!

Lean Sigma Project Selection Workbook

Provided for Project Selection prior to attending the 1st week of Green or Black Belt Training

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Questions?