



The New TBM Online Learning Center



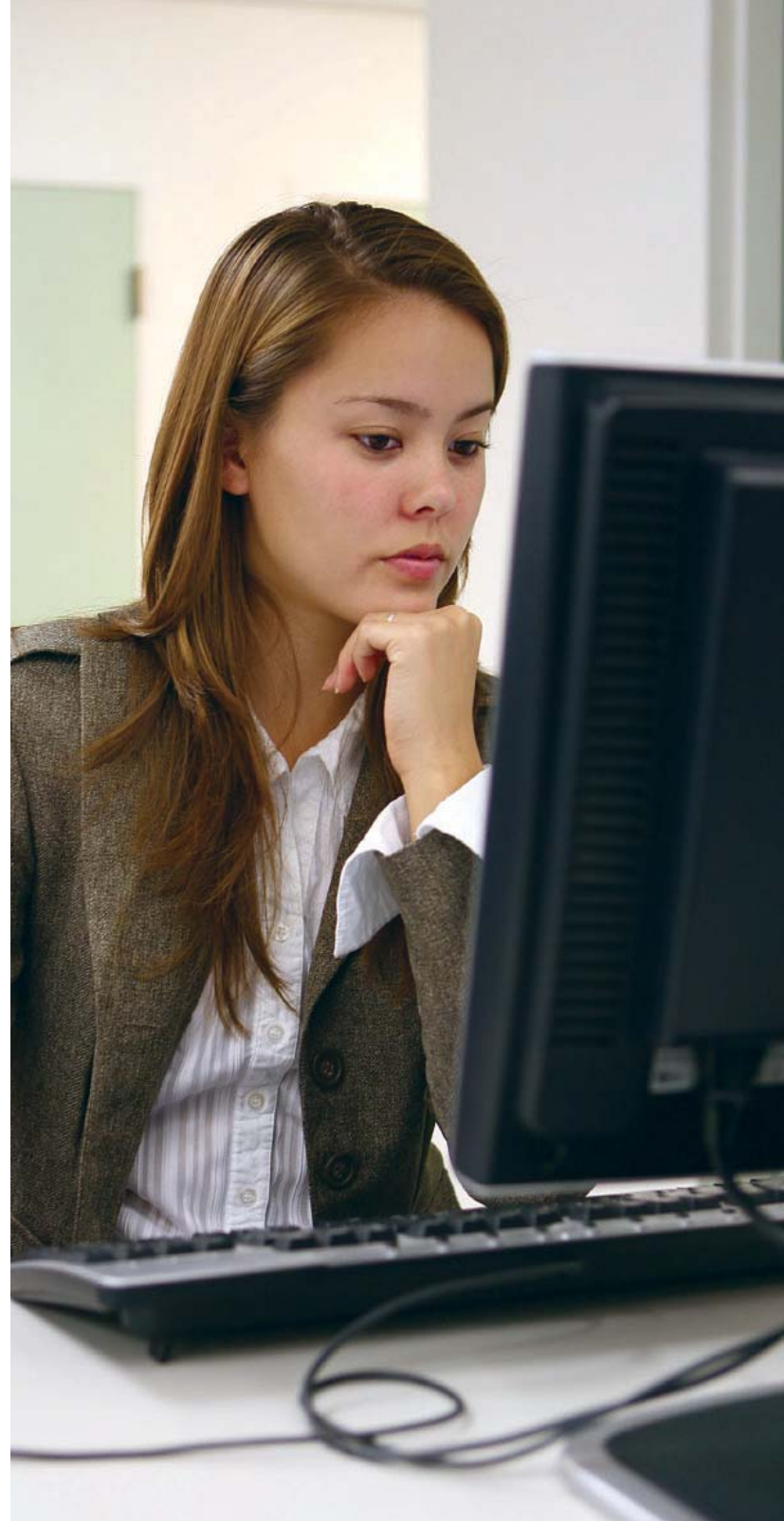
*Essential
Lean Learning
at Internet Speed*

The TBM LeanSigma® Institute, providing the world with experience-based LeanSigma training, has the most **comprehensive online training** program for **essential lean learning**.

Online training is an **effective** way to build awareness and understanding across a broad base of employees. The Essential Lean Learning curriculum is designed to ensure **understanding, application** and **retention** of basic lean concepts.

It's perfect for **managers, shop floor associates, team leaders** and **supervisors**.

Driving a lean transformation is like a puzzle. It takes effort and time to train and develop associates. The journey begins with a shared vision and by **grounding associates** with essential lean **knowledge**. Train online and get results **faster**.



GO FASTER

Speed the pace of your **lean transformation** by training an **army** of associates on essential lean concepts with **online training**.

Increase your collective **lean knowledge** with 12 progressive modules—each taking just **30-50 minutes** to complete. Learn through reading, narration, and a series of simulations and exercises designed specifically for **adult learners**.

All modules are **self paced**, **web-based**, and easily deployed from any web browser. **Training with no travel**. All you need is a computer and high-speed Internet access.

Solve another piece of the lean puzzle by getting your company closer to lean at Internet speed. It's **effective, quick,** and **convenient**.

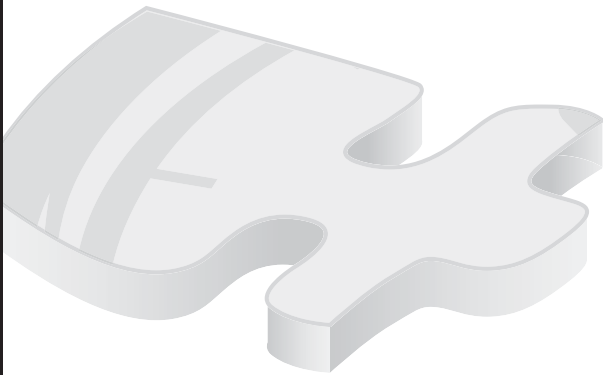


SPEAK THE LANGUAGE

Help associates become **comfortable** with the language of lean. Familiarize students with **lean terminology** and **concepts**. Help them understand **basic applications** of essential lean tools.

Expose students to **fundamental LeanSigma tools**. Each module concludes with a short **quiz** to help students test their **comprehension**.

Associates will be more likely to **support your lean transformation** long before their first kaizen event ever gets started. They will **understand their role** in a lean transformation and **how it fits into your strategy** for growth and profitability.



LeanSigma®

Standard
Operations

Flow

Value Chain Mapping

Progressive 5S

Takt Time

Just-in-time

*Waste
Elimination*

Pull

Standard

Kaizen

Work

Production Smoothing

Introduction to the LeanSigma Journey

100

Understand what's required to begin your lean transformation. Become familiar with the major objectives of lean and fully understand why you are embarking on a lean journey.

LeanSigma Overview & Time-Based Strategy

101

Understand how LeanSigma is a business strategy for growth and profitability—and how lean is a process for identifying and eliminating waste and unreasonable activities. Differentiate Lean from Six Sigma. Learn how lead-time reduction will improve quality, cost and deliver performance.

Waste Elimination

102

Differentiate between value-added and non value-added activities. Understand the three criteria to qualify as value-added activity. Identify and understand the seven categories of waste. Describe why creating defects and overproduction lead to the most waste.

Just-in-Time Principles: Takt, Flow and Pull

103

Understand the concepts of takt, flow and pull. Learn to calculate takt time as the pace for customer demand. Appreciate differences between batch, fake flow and one-piece flow. Differentiate between push and pull production systems.

JIT Principle 2: One-Piece Flow PAGE 26 / 38

1st Type of Flow: Batch Production

The first type of flow is called "batch production." In batch production, goods move from one work area to another in batches.

- Typically, parts move across large distances.
- Production methods involve large equipment.
- There is often an imbalance in the work at each operation. One person might have a lot of work, while another person might be waiting with nothing to work on.
- Often you'll find a warehouse overflowing with parts and none of them are the ones that your customer wants.

Quality Improvements through Jidoka

104

Understand the importance of identifying the problem and establishing a process to fix issues as they occur. Recognize the role of Jidoka to improve quality by preventing defects from being passed downstream. Explain how Jidoka improves productivity by separating operator and machine work by freeing up operator availability.

Production Smoothing

105

Define production smoothing and describe how it is used to meet rates of variation in customer demand. Understand how the waste of over production and inventory can be reduced utilizing a product mix strategy. Calculate optimal product mix by using takt time along with a product mix table.

Standard Operation Tools

106

Define cycle time. Explain why time observation is an effective method of analyzing a process to identify waste. Become familiar with tools to evaluate operator work balance within a group. Establish the number of operators required for production to meet customer demand. Define standard work in process as the minimum amount of material required to complete the work sequence on demand.

Time Observations PAGE 16 / 38

Guidelines

After you identify key steps and put them in order, you must time each step.

Note any abnormalities that might cause observed times to be longer than you would expect. For example, you might note that it takes more time than expected walking, waiting, reworking, or finding missing tools or material.

Let's see if you can use the time observation tool.

Improvement through Standard Operations

107

Understand the role and importance of standard operations. Identify the four key elements of standard operations. Describe how standard work in process enables the completion of the work sequence to demand. Name the three steps to implementing standard operations.

Progressive 5S & the Visual Workplace

108

Define 5S as a process and method for creating and maintaining a safe, organized, clean, high-performance workplace. Explain that 5S creates an environment that enables standard work and aids in the identification of waste. Define the 5S's in progressive 5S and state the key activity of each "S". Demonstrate the use of the first three S's. Explain how to use the score sheet as a tool to improve 5S.

Value Chain Mapping

109

Define a value chain map as the visual tool for displaying the flow of information and material through a process. Become familiar with and define the key elements of a value chain map. Define the steps for creating a value chain map of your own.



LeanSigma Implementation

110

Define the kaizen breakthrough methodology as the rapid improvement of a process through the use of a cross-functional team. Identify the characteristics of an optimum kaizen team. Grasp key kaizen principles and understand how to define key objectives for each of the five days of a kaizen event.

Your Role in the Company's Transformation

111

Be able to define your role in the transformation process, identify obstacles you may encounter, explain key steps that you should take to continue and sustain a lean transformation. Understand how to make a significant difference in a company's objectives to drive growth, earnings, and its reputation as a challenging and rewarding place to work and grow.

Pricing and Registration

The Essential Lean Learning curriculum consists of 12 self-paced, web-based online learning modules. Each course takes 30-50 minutes to complete.

Visit www.tbmcg.com/ELL for additional details.

Essential Lean Learning A 12-Module Curriculum Per Person

Individual	\$289
2-25 Learners	\$249
26-100	\$209
101-500	\$179
501+	\$139

Register online or call 800-438-5535

TAKE THE DEMO

The online training modules of our Essential Lean Learning curriculum are an **effective source of lean training.**

See how the examples and exercises make complex topics **simple** and **memorable.** Take it as often as you like. Share it with other decision makers in your organization.

Then **give us a call** and let us know how we can help you meet the challenge of training your entire team at **Internet speed.**

VISIT

**www.tbmcg.com/learnonline
and take our Essential Lean Learning demo today.**



The screenshot shows the TBM Online Learning Center interface. At the top left is the TBM logo. The main heading reads "Essential Lean Learning" with the subtitle "A critical piece of your lean transformation". Below this is a call-to-action button that says "START THE DEMO NOW >>>". The background of the page features a faint image of a hand holding a stopwatch.

www.tbmcg.com/learnonline