

The Impact Dakota Lean Enterprise High Performance Manufacturing training helps businesses achieve higher profitability by building internal capability and capacity to improve **QUALITY, COST, and DELIVERY**. This training is based on the Lean Enterprise Certification Program (LECP) body of knowledge and provides individuals and companies with a comprehensive and effective roadmap for professional and workforce development that aligns with industry-recognized standards. This training includes the optional LECP Exam which is a prerequisite for becoming a certified lean practitioner.

**COSTS AND ENROLLMENT OPTIONS (select one):** The enrollment options include:

- OPEN-SESSION TRAINING** - This option includes participants from multiple companies. Total cost per participant is \$2,145 and includes training manual, required books, and SME’s Bronze Level LECP Exam fee. No Exam option is available which reduces the cost to \$1,845.
- OPEN-SESSION TRAINING PLUS KAIZEN EVENT OPTION** - Each participating company qualifies for an optional on-site, company-exclusive 2-day kaizen event (improvement project) at the discounted rate of \$2,500 (regularly \$3,200).
- COMPANY-EXCLUSIVE TRAINING** - This option requires 10 or more participants from the same company and qualifies for a complementary 2-day, on-site, company-exclusive kaizen event (improvement project). No Exam option reduces the cost to \$1,845 per participant.

The accompanying pages provide the program definitions, proposed dates and suggested target participants. To participate in this Program, the Manufacturer agrees to the following:

1. To make best efforts to provide time and other resources so the participants can fully participate in the program.
2. To pay Impact Dakota the above stated costs per-participant and additional on-site two-day project(s) if applicable.
3. To provide constructive feedback on the program, including participation in a NIST-MEP confidential, third-party survey after completion of training. *See page 3 of this document for more information about the survey.*

We understand the above listed commitments required to participate in the Lean Enterprise for High Performance Manufacturing Training and agree to work with Impact Dakota on the program.

**Company Name** \_\_\_\_\_

**Authorized Representative (Print Name/Title)** \_\_\_\_\_

**Signature** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Attendee(s) (Name/Email):** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Billing Address:** \_\_\_\_\_

**PLEASE SPECIFY  
 THE NUMBER OF  
 ATTENDEES FROM  
 YOUR  
 ORGANIZATION:**

\_\_\_\_\_

**Please provide a copy of this completed commitment form to: Darcy Vaughan, Impact Dakota, 1929 North Washington Street, Suite M, Bismarck, ND 58501. Email: [DarcyV@ImpactDakota.com](mailto:DarcyV@ImpactDakota.com). Phone: 701.354.0979, Fax: 701.354.0991. For information about this training contact Reza Maleki at 701.367.8664, Email: [RezaM@ImpactDakota.com](mailto:RezaM@ImpactDakota.com).**

**The Industry Certification Standard:** The alliance created and maintained by Society of Manufacturing Engineers, Association for Manufacturing Excellence, and The Shingo Institute brings industry together with this rigorous Lean program to set the standard for Lean practices and principles across the globe.



# Impact Dakota Lean Enterprise High Performance Manufacturing Training

The Impact Dakota Lean Enterprise High Performance Manufacturing (LEHPM) training is designed to provide your workforce with the opportunity to learn about tools, techniques, and systems that enhance your ability to contribute to your continuous improvement efforts. This LEHPM training is based on an industry-leading certification program that provides individuals and companies with a comprehensive and effective roadmap for professional and workforce development that aligns with industry-recognized standards.

The Impact Dakota LEHPM participants will receive a certification recognizing their completion of the program. This training is also designed to prepare the participants for taking the Society of Manufacturing Engineers (SME) **Lean Bronze Certification** Examination. Those who pass the exam will receive the SME's Lean Knowledge Certificate. To achieve full Lean Bronze Certification, in addition to passing the exam, the participant must successfully complete a project portfolio. The participants will receive guidance about project portfolio development.

**Lean Certification is an evolutionary journey where your knowledge and experience work together to create a depth of expertise upon which you can keep building. It weaves innovative ways of thinking and doing business with real-world applications and results. Lean Certification not only helps you attain the knowledge, it validates it.**

| Lean Enterprise High Performance Manufacturing Training               |                 |                 |                 |                 |                 |                           |                   |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------------|-------------------|
| Learning Units and Activities   | Calendar        |                 |                 |                 |                 |                           |                   |
|   | Date            | Date            | Date            | Date            | Date            | Date                      | Dates             |
|   | Day             | Day             | Day             | Day             | Day             | Day                       | Day 1<br>Day 2    |
| Principles of Lean (101)<br>Workplace Organization (5S)               | ONLINE<br>Class |                 |                 |                 |                 |                           |                   |
| High Performance Teams<br>Standardized Work                           |                 | ONLINE<br>Class |                 |                 |                 |                           |                   |
| Quick Changeover<br>Total Productive Maintenance<br>Managing Flow     |                 |                 | ONLINE<br>Class |                 |                 |                           |                   |
| Cellular Manufacturing<br>Value Stream Mapping                        |                 |                 |                 | ONLINE<br>Class |                 |                           |                   |
| Root Cause Analysis/Problem Solving<br>Exam Review and Preparation ** |                 |                 |                 |                 | ONLINE<br>Class |                           |                   |
| SME Lean Bronze Exam **   |                 |                 |                 |                 |                 | ONLINE<br>Exam<br>3 Hours |                   |
| Practical Application<br>2-Day Kaizen Event *                         |                 |                 |                 |                 |                 |                           | ONSITE<br>Project |

\* Alternative dates possible. For qualifying participants and companies.  
 \*\* For participants who have signed up for LECP Exam option

# POST LEHPM TRAINING BENEFITS AND IMPACTS SURVEY

Following the completion of the training, NIST-MEP (National Institute of Standards and Technology - Manufacturing Extension Partnership) will be sending your company a confidential third-party survey. These questions will help determine the potential benefits and impacts your company has or can realize by applying the knowledge gained from this training and kaizen event (if applicable). The tables below are tools to help gather information, which will be helpful when completing the survey.

**Please note that Impact Dakota staff will be available to assist you in this process.**

## PROJECT MEASUREMENT CHART

Please provide any measurements that are the target for this project, or are overall targets of performance desired from Lean activities:

| Key Measure               | How Will This Training and/or Project(s) Impact the Key Measures (annualize)? | Current | Target | Can it Be Measured? | Measurement System Needed? |
|---------------------------|---|---------|--------|---------------------|----------------------------|
| Sales (increase / retain) |   |         |        |                     |                            |
| Cost Savings - Labor      |   |         |        |                     |                            |
| Cost Savings - Inventory  |   |         |        |                     |                            |
| Cost Savings - Materials  |   |         |        |                     |                            |
| Cost Savings - Other      |   |         |        |                     |                            |
| Jobs (create / retain)    |   |         |        |                     |                            |

| Return on Investment Measure | Project Costs | Financial Gain (as a result of project/training) | Return on Investment Ratio (gain/cost) |
|------------------------------|---------------|--|--|
|                              | \$            | \$   | :                                      |

## RELATED INVESTMENT CHART

Related to this project, what additional investment(s) might your company make? Will you need assistance? If so, would you seek outside expertise? These client investments are considered key performance indicators; which are measured by NIST-MEP.

| Investment                     | Estimated Amount | Description | Assistance Needed? |
|--------------------------------|------------------|-------------|--------------------|
| Plant or Equipment             | \$               |             |                    |
| Employee Skills - Workforce    | \$               |             |                    |
| Information Systems – Software | \$               |             |                    |
| Other Areas                    | \$               |             |                    |
| Total Investment               | \$               |             |                    |

## ABOUT THE PRESENTER



**REZA MALEKI** has more than 37 years of professional experience; which includes serving in four universities in the United States and working as a consultant with diverse manufacturing companies in Minnesota, North and South Dakota, Wisconsin, Michigan, and Kentucky. In addition to manufacturing, he also has worked with other industries such as health care, distribution and warehousing, insurance, library services, and food processing.

As a Senior Business Advisor at Impact Dakota, the major focus of Reza's activities are on the development and delivery of high value services to client companies. This includes interacting with clients to assist them in assessing and discovering operational needs and solutions, design and delivery of training materials pertaining to target clients, and providing consulting services to clients to foster their continuous improvement activities.

Reza's experience with manufacturing companies also includes serving on the Board of Directors of an electronics company, working as Director of Allied Manufacturing Center, and Technology Transfer Director. He has been involved in a number of civic and professional organizations and is currently serving as the President of Minn-Dak Manufacturers Association. He uses every opportunity available to visit different companies. Since the start of his professional career, he has made more than 1,100 plant visits to approximately 400 companies.

Reza received his degrees from North Dakota State University; which include a Ph.D. in Engineering, and B.S. and M.S. in Industrial Engineering and Management. He is a registered professional engineer, certified manufacturing manager, academic associate of Avraham Y. Goldratt Institute, and Lean Bronze Certified Practitioner. He has also completed the requirements for and received certification in Lean Leadership. Included in Reza's publications is the book, "Flexible Manufacturing Systems-the Technology and Management"; published by Prentice-Hall.