

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 \$2,425 and includes training manual, required books, and SME's Bronze Level LECP Exam fee. No Exam option is available which reduces the cost to \$2,125. **Please circle choice: EXAM OPTION or NO-EXAM OPTION.**
- ☐ **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 \$3,450 (regularly \$4,600).
- ☐ **COMPANY-EXCLUSIVE TRAINING** - This option requires 10 or more participants from the same company and qualifies for a complimentary 2-day, on-site, company-exclusive kaizen event (improvement project). Cost per participant is \$2,425. No Exam option is \$2,125 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. **Please select:** ☐ In-person ☐ Virtual

**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 Wendy Hauff at 701.425.4036, Email: [wendyh@ImpactDakota.com](mailto:wendyh@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	Training Calendar						
	May 15	May 22	May 29	June 5	June 12	June 19	TBD
	Thursday	Thursday	Thursday	Thursday	Thursday	Thursday	Two Days
Lean Manufacturing 5S Workplace Organization	Class						
Kaizen Standard Work		Class					
Set-up Reduction/Quick Changeover Total Productive Maintenance Facility Layout and Flow			Class				
Kanban/Materials Management Value Stream Mapping				Class			
Problem Solving Exam Review and Preparation **					Class		
SME Lean Bronze Exam **						ONLINE Exam 3 Hours	
Practical Application 2-Day Kaizen Event *							ONSITE Project
* Alternative dates possible. For qualifying participants and companies.							
** For participants who have signed up for Lean Bronze 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	\$		

## IMPACT DAKOTA PRESENTERS



**WENDY HAUFF**, is a seasoned Manufacturing and Quality Engineering Professional with over 20 years of expertise in Process Development, Continuous Improvement, and Project Management. Her career spans the Aerospace and Defense industries, specializing in Avionics and Cargo, before transitioning into Aerial and Compact Equipment, focusing on Assembly, Fabrication, Welding, Paint, Material Management, Inspection, and TPM.

She has led both large and small teams, monitored KPIs, conducted audits, and worked on cross-functional teams. Wendy has driven numerous improvement initiatives, including Continuous Improvement Projects, Kaizens, and Rapid Improvements, utilizing methodologies like DMAIC, A3, and PDCA with Lean Six Sigma (LSS) tools such as VSM, 5S, and Standard Work.

Her accomplishments include enhancing Efficiency and Quality, reducing costs, implementing 5S programs, and achieving Certified Supplier Status and AS/ISO Certifications. Wendy emphasizes Training, Development, and Strategic Planning to bridge gaps and boost profitability.

She holds a BS in Aerospace Engineering from Embry-Riddle Aeronautical University, Arizona. Wendy is a certified Six Sigma Black Belt, a Lean Manufacturing trainer, and a quality management system auditor. She's enthusiastic about leveraging her experience to help North Dakota businesses improve processes, leadership, and workforce development.



**LYLE ARNOLD** has over 20 years of expertise in the Manufacturing industry. He began his career at Turtle Mountain Corporation, an electronic circuit board manufacturer, where he held positions such as Program Manager, Production Control Specialist, and Supply Chain Analyst. He later transitioned to Goodrich Corporation, taking on roles as Aftermarket Purchasing Analyst and Program and Operations Lead, where he gained extensive experience in supply chain management and operational excellence while collaborating with customers and vendors nationwide.

Most recently, Lyle served as Operations Lead at Collins Aerospace, acting as the primary point of contact for ensuring on-time delivery to both internal and external customers. He conducted daily and weekly meetings using a tiered approach, managed key customer interactions with military and commercial cargo airframe

clients, and coordinated projects related to new product introductions. Additionally, Lyle provided daily and weekly progress updates to stakeholders, maintaining strong communication with all parties involved.

Lyle is well-versed in Lean manufacturing principles and practices, having earned his Lean Practitioner certification at Collins Aerospace. He has participated in and led several continuous improvement initiatives. With four years of AS9100 Internal Auditor experience, Lyle possesses a deep understanding of operational environments, including value stream mapping, manufacturing workflows, and product flow optimization.

He holds a BS in Business Administration with a focus on Marketing and Management from Valley City State University. Lyle brings his wealth of knowledge and experience to Impact Dakota, contributing to their mission of driving excellence in manufacturing processes and operations.



**TROY HANSON** is a dedicated professional with over 33 years of experience spanning the automotive, industrial/construction equipment, and aerospace industries. His journey in lean enterprise began in 1990 as a fuel systems development engineer at Cummins Engine Corporation. Throughout his career, Troy has held diverse roles across Engineering (18 years), Manufacturing (12 years), and Quality (3 years), yet he remains a lifelong student of lean enterprise, deriving fulfillment from helping business leaders set and achieve their goals.

A strong advocate for teamwork and valuing people as a business's greatest asset, Troy has spent over 25 years leading with a hands-on approach. He has successfully guided teams in providing Continuous Improvement training, facilitating events, implementing single-piece flow assembly lines, designing and executing Kanban replenishment systems, introducing Real-Time-Problem-Solving processes, and managing

product work transfer projects.

Troy holds a Bachelor of Science degree in Mechanical Engineering from North Dakota State University in Fargo, North Dakota. He also completed undergraduate coursework in Business Administration at both IUPUI in Columbus, Indiana, and North Dakota State University. He brings his vast expertise and passion for lean principles to every endeavor, making him a highly valuable asset in driving operational excellence and leadership growth.