



Manufacturing Results

We measure our success by yours.



Michigan Manufacturing Technology Center – West

MMTC-West

Michigan Manufacturing Technology Center - West

The only objective, federally-endorsed and supported manufacturing services group in West Michigan.

Dedicated to West Michigan's small to medium-sized manufacturers.



The Green Supplier Network

GSN reviews employ Lean and Clean methodologies, which concentrate on the root cause of waste of one process line in a facility and provide a framework for achieving specific measurable environmental and business objectives.

The Green Supplier Network

Through the GSN Review process, companies can learn how they can:

- ✓ Decrease the use of toxic and/or non-renewable materials
- ✓ Establish tracking systems to use energy more efficiently
- ✓ Improve use and selection of more environmental friendly raw materials
- ✓ Institute consistent work practices and procedures to reduce labor and capital costs and
- ✓ Promote a culture of greater employee participation in improvement activities.

Collaboration

Collaboration, a major strength of West Michigan, is the reason that the Green Supplier Network has been so strong. Our Green Supplier Network has realized the success we've had, through a partnership between the EPA, The MMTC and OEM's like Steelcase, who believes that the health of their supply chain is a direct reflection of their health.

Collaboration Initiatives

- ✓ User Groups
- ✓ Mfg and SCM Councils
- ✓ Alternative Energy Supply Chains
- ✓ E3

User Groups

*User Groups are shared learning experiences among five to ten companies, committed to an organized, disciplined process of **collective learning** over an extended period of time, typically one year.*

User Groups

- ✓ Green Supplier Network
- ✓ Sustainable Manufacturing
- ✓ Green Materials and Chemistry
- ✓ Energy Efficiency

Green Supplier Network User Group

By combining well developed lean manufacturing philosophy and tools with the discipline of developing an environmental management system, companies are finding a powerful platform to begin developing a sustainability program that is increasingly becoming more important to customers, investors and other corporate stakeholders.

Green Supplier Network User Group

Benefits:

- ✓ Connections with Customers
- ✓ Co-operative investigations
- ✓ Regulation updates
- ✓ Knowledge sharing & money saving ideas
- ✓ Hands-on Application activities
- ✓ Assessment of activities with improvement feedback
- ✓ Explore a sustainable lean & clean management system

Sustainable Manufacturing User Group

Customers and other corporate stakeholders are increasing their demands for “green” or environmentally sustainable products and services from Original Equipment Manufacturers (OEMs) and OEM suppliers. This User Group provides a roadmap to identify and develop innovative products and processes through knowledge of emerging sustainable manufacturing technologies and techniques.

Sustainable Manufacturing User Group

Typical questions addressed:

- ✓ What is an environmentally safe product?
- ✓ What is the carbon footprint of your product?
- ✓ What is the energy intensity of your product?
- ✓ Does your product contain substances that are harmful to human or ecosystem health?
- ✓ Do you know the material efficiency of your process?
- ✓ Does your company have a formal social responsibility program in place?

Sustainable Manufacturing User Group

Training will include the following concepts:

- ✓ How to incorporate sustainable business practices
- ✓ When and how to use bio-materials
- ✓ How to use the 12 principles of green chemistry to identify safer materials
- ✓ How bio-industrial technology can work for your products
- ✓ Why life cycle analysis will be a major driver of product and process design in the next ten years

Green Materials and Chemistry User Group

The Green Chemistry movement is accelerating in popularity as a conceptual framework and toolbox for developing safer chemicals and materials as substitutes for chemicals of concern. By definition, Green Chemistry states that the use of a hazardous/toxic chemical in a material, product or process should be seen as a “design flaw”; rather Green Chemistry advocates for solutions that are “benign by design”.

Green Materials and Chemistry User Group

This User Group will help its members develop:

- ✓ appropriate resources and protocols
- ✓ case studies and tools around green chemistry, human and ecosystem health end-points
- ✓ life cycle impact categories
- ✓ chemical assessment
- ✓ policy/legislative initiatives.

Energy Efficiency User Group

Energy Efficiency is an innovative and profitable tool for all sectors of the economy where energy is used – natural gas, electricity or other forms to manufacture a product or to deliver a service. Energy efficiency improvements will benefit all forms of enterprise; whether structured as profit or nonprofit entities.

Energy Efficiency User Group

Curriculum:

- ✓ Energy Accounting and Management Systems
- ✓ Energy Audits and Audit Strategy
- ✓ Building Energy Envelop
- ✓ Internal Energy Systems
- ✓ How to Create a Company/Organization-Specific Plan
- ✓ Prepare a Utility Energy Efficiency Rebate Application

What is E3?

Economy, Energy, and Environment

A coordinated federal and local technical assistance initiative that helps communities work with their manufacturers with customized, hands-on assessments of production processes to reduce energy consumption, minimize their carbon footprint, prevent pollution, increase productivity, and drive innovation.

What is E3?

As a result, E3:

- ✓ Helps foster a smarter and more efficient green workforce.
- ✓ Promotes sustainable manufacturing and growth through innovative technology.
- ✓ Improves the regional economy by retaining jobs in companies that are better positioned for global competition.
- ✓ Reduces environmental impacts while regaining a competitive advantage.

We work hard, so you can work better.

MMTC-West : Areas of Expertise

- Assessment Tools
- Growth and Diversification
- Lean Business Solutions
- Quality Management Systems
- Sustainable Manufacturing Solutions
- Operational Improvement Systems
- Leadership/Team Development

What have you got to lose?

Objective, federally endorsed,
and trusted.

Dedicated to small and medium-
sized manufacturers in West
Michigan

A **no-cost assessment** of your
total operations.

616-771-0561

rightplace.org/mmtc-west/





Manufacturing Results

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