MICHIGAN

MANUFACTURING

TECHNOLOGY

CENTER







MANUFACTURE SMARTER.

CERTIFICATE COURSE CATALOG

LEADERSHIP • PROJECT MANAGEMENT • LEAN
QUALITY MANAGEMENT • SIX SIGMA • WORKFORCE ENGAGEMENT
BLUEPRINT READING • GD&T • SALES DEVELOPMENT
MARKET RESEARCH • CYBERSECURITY • FOOD

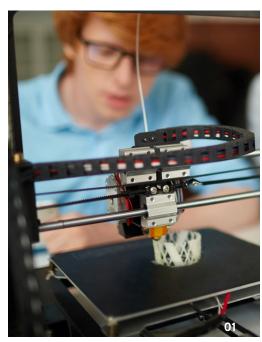
2020-2021

TABLE OF CONTENTS

IADLE OF CONTLINES
Who We Are
Cancellation/Rescheduling Policy
Your Health & Safety3
Distance Learning
Cybersecurity
Food
Blueprint Reading, GD&T Comprehensive, GD&T Fundamentals, Tolerance Stacks Analysis
Leadership
Lean Principles & Techniques
Quality Management
Sales Development & Market Research
Six Sigma
Workforce Engagement
Building Better Teams, Building Your Employee Experience, Manufacturing Skills Development







This booklet reflects certificate courses offered by The Center. Additional class dates will be added. For a complete schedule of courses for 2021, visit <u>The-Center.org</u>. All courses listed in this catalog include a certificate upon completion.

WHO WE ARE

Since 1991, the Michigan Manufacturing Technology Center has been consulting with Michigan's small and medium-sized manufacturers on how to compete and grow. We've assembled a team of experts over the years who are passionate about what they do and don't stop until the job is done. We've worked with thousands of manufacturers to diversify, get lean, and stay relevant. By continuing to work on projects with the same amount of passion, we will do our part to ensure the future of Michigan manufacturing for decades to come.

Today, the Michigan Manufacturing Technology Center is driving innovation and best practices to keep up with changes in the global economy through consulting services such as sustainability and workforce training, expertise in technology implementation, website development, and more. No other organization in the state of Michigan has the people, the experience, or the breadth of resources that we provide. We're strongly committed to our mission of working with manufacturers to thrive and prosper.

TRAINING WILL BE HELD AT: 45501 HELM ST. IN PLYMOUTH, MI UNLESS OTHERWISE NOTED.



ON-SITE TRAINING

In the pursuit of empowering employees and businesses with invaluable training opportunities, The Center offers customizable, on-site training courses covering Operational Excellence, Business Growth, Workforce Skill Development, and Supply Chain Optimization. For more information about services available at your organization, call 888.414.6682.

NEARBY LODGING

For students needing overnight accommodations, The Center has partnered with various hotels in the area. We hope you'll take advantage of one of the many choices near our Plymouth, Mich. location. To search nearby hotels, visit The-Center.org.

CANCELLATION/RESCHEDULING POLICY

ALL CANCELLATION AND RESCHEDULING CHANGES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- All cancellations and course rescheduling must be done in writing via email at <u>events@the-center.org</u>. All online registrations must be *paid via credit card/PayPal only*.
- Any course registration canceled 15 calendar days or more prior to original course date will receive a full refund <u>less</u> a \$100.00 administrative fee.
- Any course registration canceled less than 15 calendar days prior to original course date, as well as NO SHOWS, will
 forfeit all fees.
- Any rescheduling requests must be received at least 15 calendar days or more prior to original course date. A \$100.00 administrative fee will be applicable to all date changes.
- Any rescheduling requests occurring in less than 15 calendar days prior to original course date will be subject to an administrative fee of 50% of the course fee

MICHIGAN

MANUFACTURING

TECHNOLOGY

CENTER

YOUR HEALTH & SAFETY ARE OUR TOP PRIORITY

The Michigan Manufacturing Technology Center (The Center) has been closely monitoring the COVID-19 situation to prepare and implement necessary changes and ensure our clients' and employees' safety. We are committed to making all who enter our building feel confident that they are in a safe environment. Newly implemented processes for our guests include:

DISINFECTING/CLEANING PROTOCOLS

The Center is committed to strict proactive and reactive sanitation and disinfection practices. Our facility has been professionally cleaned with a fogging decontamination service, disinfecting all areas including objects, walls, floors and ceilings, as well as an antimicrobial application. Applications will be repeated every 90 days, or as necessary. High contact points, such as door handles, desks, chairs, faucets, etc., will be cleaned throughout the day. Portable disinfection stations have been set up in select locations and a 30-day minimum of disinfectant supplies has been secured.



ENTRY/EXIT & HEALTH SCREENINGS

To ensure the health of all who are in the building, guests must now only enter The Center through the front entrance. Every individual will have their temperature taken (must be at or below 100.4°F) by a contactless thermometer and must pass a quick health screening questionnaire for allowed entry. Designated exit doors have been identified to control traffic flow and reduce pre-screening exposure.



SOCIAL DISTANCING

The Center is committed to maintaining safe social distancing protocols (no handshakes or embraces, keeping six feet distance when interacting, etc). Social distancing signage throughout the building should be adhered to.



PERSONAL PROTECTIVE EQUIPMENT

Upon entry, quests will receive a face mask and gloves. Face masks must be worn at all times by everyone in the building. Employees and visitors must wear gloves when in high-touch areas. Prior to entering a restroom a face mask must be worn and hands are required to be washed with soap and water prior to exiting. At all times, The Center has a 30-day supply of PPE. Great emphasis is placed on frequent handwashing.



REDUCED MEETING & CLASS SIZES

The Center has reduced class occupancy by nearly 50% to accommodate for six feet distance between individuals. For those attending meetings at The Center, dedicated rooms have been identified for use which will have common surfaces disinfected between meetings. Private meetings will be limited to no more than 10 people.



EMPLOYEE HEALTH CHECKS

To ensure the health of staff and all who enter the building, employees must pass daily health and temperature screenings prior to entering the building.



FOOD & BEVERAGE

For the safety of all guests, pre-packaged meals will be served for classes which include a lunch option. Designated protocols should be followed regarding beverages.

DISTANCE LEARNING (DL)

The Center is now offering fully virtual classes in addition to our traditional face-to-face classes. Our live-stream, distance learning classes incorporate multiple learning processes resulting in improved content retention and increased application to the workplace. Each class includes two or more of the following methods: pre-work, live-stream instruction, individual and team tasks, games or contests, assignments for multi-session classes, and a completion project. Full-day classes typically will include 1-2 hours of live-stream in the morning and afternoon with 4-6 hours of offline activities to reinforce the instruction. Virtual learning classes offered include:

DL: 8D PROBLEM SOLVING

Many things can go wrong in a manufacturing facility such as errors in specifications, overrun/underrun of quantities, missing production and shipping deadlines. But, what is the root cause of the problem? And, what can be done to solve it? This course presents the necessary tools and teaches how to utilize them. Participants will gain a deeper understanding of how to report findings, determine and apply remedies, and solve the problems so they don't happen again.

½ day of class | \$295/person

SESSIONS AVAILABLE (8:00 AM - 12:00 PM)

- January 13, 2021
- February 16, 2021
- March 25, 2021
- April 22, 2021
- May 19, 2021
- · June 15, 2021

DL: APPLIED PROJECT MANAGEMENT

Following the Project Management Book of Knowledge, our Applied Project Management program is an Active Learning Model-based course where participants learn tools and techniques for planning, executing and monitoring strategic initiatives. Participants apply their learning in real-time by working on a project case study. Upon completion, this course satisfies the requirements to sit for the Project Management certification.

10 days of classes | \$1,950/person

SESSIONS AVAILABLE (8:30 AM - 12:30 PM)

March 3, 10, 17, 24 & April 7, 14, 21, 28 & May 5 & 12, 2021

DL: BLUEPRINT READING

How to interpret a technical drawing is an essential skill to anyone involved in the manufacturing industry, especially prior to learning GD&T. This Blueprint Reading virtual course is designed for those who need an introduction to drawing interpretation.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

Dates TBD in Q2 & Q3 2021.

DL: CORE TOOLS: APQP, PPAP & FMEA

This distance learning course blends APQP, PPAP and FMEA and guides participants through the steps of the launch process. Utilized correctly, the deployment of these core tools leads to continuous improvement, defect prevention and reduction in variation and waste.

2 days of classes | \$795/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

• Dates TBD in Q2 & Q3 2021.

DL: CORE TOOLS: MEASUREMENT SYSTEMS ANALYSIS

Measurement Systems Analysis (MSA) examines sources of variation in the measurement process, as well as information about measurement characteristics based on accuracy, precision and stability.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

Dates TBD in Q2 & Q3 2021.

DL: CORE TOOLS: STATISTICAL PROCESS CONTROL

Attendees run a group of sequentially produced parts and measure them to determine average, range and sigma. Control limits are calculated, and additional samples are measured and plotted to determine where the process is going and why. Interpretations of results and capability study exercises are addressed.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

• Dates TBD in Q2 & Q3 2021.

NEW CLASS DATES ARE ADDED FREQUENTLY.

For a complete schedule of all 2021 courses at The Center, visit The-Center.org.

04

DISTANCE LEARNING (DL)

DL: FINANCE FOR THE NON-FINANCIAL MANAGER

This class exposes non-financial managers to financial concepts that are relevant to managing any type of business, with an additional focus on manufacturing. The key concept is that managers make daily decisions that impact the financial health of the business, so they need to understand the basics of financial management.

½ day of class | \$295/person

SESSIONS AVAILABLE (8:00 AM - 12:00 PM)

- February 4, 2021
- April 9, 2021
- · June 2, 2021

DL: FRONTLINE LEADER

Provide frontline leaders the tools to improve communication, engagement and productivity. Leaders will become more competent and confident resulting in increased employee engagement, better productivity, higher employee satisfaction and reduced turnover. Using our exclusive Active Learning Model participants will learn through assessment, practice, application and reflection.

4 days of classes | \$995/person

SESSIONS AVAILABLE (9:00 AM - 12:00 PM)

• February 12, 19, 26 & March 5, 2021

DL: GET MORE DONE

The Center's Get More Done class allows participants to improve their personal productivity by assessing workflow, planning improvements using core principles, and turning skills into daily practice. This Active Learning Model class will have you applying your skills immediately.

1 day of class | \$195/person

SESSIONS AVAILABLE (1:00 PM - 4:00 PM)

· March 23, 2021

DL: ISO 9001:2015 INTERNAL AUDITOR

Learn the information necessary for conducting internal quality audits. Emphasis is placed on effective auditing processes, skills and techniques. Participants will be instructed in developing an audit plan and the audit report required for management review. Corrective and preventive action will be reviewed, as well as the 2015 standards and requirements.

3 days of classes | \$995/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

Dates TBD in Q2 & Q3 2021.

DL: LEAN MANUFACTURING CHAMPION CERTIFICATION

Build your organization's internal Lean capacity as a Lean Champion and better facilitate continuous improvement projects. Cycle through live stream instruction, hands-on application, check meetings, debriefs and presentations. Learn to identify opportunities to remove waste in current processes, build more effective teams, increase productivity, improve quality and reduce stress.

12 days of classes | \$3,500/person (second person from the same company 1/2 price)

SESSIONS AVAILABLE (8:00 AM - 4:30 PM)

- February 11 & 25, March 11 & 25, April 8 & 22, May 6 & 20, June 3 & 17, July 1 & 15, 2021
- September 9 & 23, October 7 & 21, November 4 & 18, December 2 & 16, 2021 & January 13 & 27, February 10 & 24, 2022

DL: LEAN MANUFACTURING PRACTITIONER

Lean Manufacturing Practitioner will develop an individual's capability to contribute to an organization's Lean transformation.

4 days of classes | \$1,500/person

SESSIONS AVAILABLE (8:00 AM - 4:30 PM)

- February 2, 9, 16 & 23, 2021
- September 8, 15, 22 & 29, 2021



DISTANCE LEARNING (DL)

DL: LEAN OFFICE CHAMPION **CERTIFICATION**

Build your organization's internal lean capacity as a Lean Champion and learn how to facilitate continuous improvement projects in your workplace. This six-month training will include tools for facilitating change, seeing waste in current processes, building more effective teams, increasing productivity while reducing stress, and improving the quality of services or products delivered to your customer.

12 days of classes | \$3,500/person (second person from the same company 1/2 price)

SESSIONS AVAILABLE (8:00 AM - 4:30 PM)

• February 9 & 16, March 9 & 16, April 13 & 20, May 11 & 18, June 8 & 15, July 13 & 20, 2021

DL: LEAN OFFICE PRACTITIONER

Increase your capability to contribute to your organization's Lean transformation with The Center's virtual Lean Office Practitioner course.

4 days of classes | \$1,500/person

SESSIONS AVAILABLE (8:00 AM - 4:30 PM)

April 7, 14, 21 & 28, 2021

DI: I FAN SIX SIGMA FUNDAMENTALS

Develops the skills necessary to become a critical part in your organization's quality improvement initiatives. Gain a strong foundation of the Lean and Six Sigma methodologies for meaningful participation in Six Sigma project teams.

4 days of classes | \$995/person

SESSIONS AVAILABLE (8:00 AM-12:00 PM)

- February 15-18, 2021
- August 15-18, 2021

DL: PROBLEM SOLVING

Improve quality by reducing errors and scrap through engaging staff in a structured, problem-solving process based on A3 thinking. This class is designed for employees who are expected to participate in their organization's problem-solving activities or lead a problem-solving team.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 4:30 PM)

May 12, 2021

DL: SUPERVISOR SKILLS

Do you have an employee with leadership potential or a newly promoted supervisor or foreman and want to give them practical management training? This is the class you need. Get equipped with the knowledge and skills to thrive in today's management environment. Learn how to identify:

- · Various leadership styles
- · Different behavioral characteristics and how to relate to each
- Communication barriers and how to overcome them
- How to manage and maximize available time and decrease non-productive activities

4 days of classes | \$975/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

• Dates TBD in Q2 & Q3 2021.

DL: TRAIN THE ONLINE TRAINER

Increase effectiveness and confidence as an online trainer with hands-on skill development. Use The Center's six-step Active Learning Model to develop high-energy training sessions that are effective and result in measurable outcomes. Participants will begin with an online interactive module prior to the first, three-hour livestream session. Each participant will work independently to develop a short livestream training during the second session and will receive feedback from fellow participants, coaching from the trainer, and self-reflection from their recorded session.

2 days of classes | \$595/person

SESSIONS AVAILABLE (8:30 AM - 11:30 AM)

• December 3 & 10, 2021

06



The ongoing skilled trades employee shortage is causing many manufacturers to hire from outside of the industry, bringing in people without manufacturing skills or backgrounds. To ease workers' transitions into a manufacturing environment, a strong training program is essential. This is especially critical now as millennials make up a large part of the available workforce, and 87% of millennials view professional development and career growth as very important. To show your company is interested in investing in its employees, training is the answer.

In addition, providing ongoing training to workers contributes to both employee engagement and productivity as their skills are enhanced and efficiencies are improved. This can greatly impact your bottom line, as companies that invest in employee training achieve a 24% higher profit margin than those who don't.

With so much at stake, most companies cannot afford to neglect training for workers. Consider, for example, the following benefits that come from training:

- Training reduces stress and builds confidence. Whether someone is completely new to a manufacturing environment, or simply trying to learn a new process within the facility, the effectiveness of their training will determine how well they perform. In fact, 74% of workers stated that lack of training was the biggest hurdle in achieving their full potential at work. By gaining additional guidance and understanding through training, workers will be set up for success as they can more confidently approach their jobs.
- Improved confidence leads to better job satisfaction and production quality. When workers are confident in their abilities, they become more engaged. This

heightened engagement not only improves worker happiness, but also can have massive impacts on quality and productivity.

- Job satisfaction leads to improved employee retention. To ensure talent stays within your company, training can help. As you continue to invest in the skills of workers, their job satisfaction increases, thus eliminating their desire to look elsewhere for work. With 40% of workers leaving their jobs within the first year due to poor training, this aspect cannot be ignored.
- Employee retention leads to more favorable company reviews. By demonstrating that you care about your workers and investing in their professional development, workers will be much more likely to view your company in a favorable way. This will be reflected in employee surveys and workplace culture.
- Favorable reviews attract more workers to your company. When workers are happy with their company, they will likely spread the word to others in person or on review sites such as Glassdoor and Indeed. By establishing a strong reputation as a company that invests in workers and wants them to grow and succeed, hiring efforts will be supported as candidates will view your company in a more favorable and desirable way.

A properly trained employee feels better about the job they are doing and produces quality work. When they produce quality work, they are more engaged in their job and motivated to improve the business as a whole. And just as one bad apple can spoil the basket, the opposite also is true: happiness and engagement are contagious.

CYBERSECURITY

IMPROVING INFORMATION SECURITY THROUGH RISK MANAGEMENT

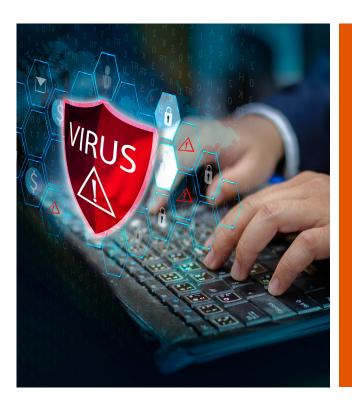
In the current age of cyber crime, the information that is important to our business is continually at risk, and a cybersecurity/information security incident can be devastating. It is vitally important that each business understand and manage the risks to their information, systems and network that support their business.

This class provides participants with the means to identify and mitigate information security risks using the NIST Cybersecurity Framework. By utilizing the five primary framework categories (Identify, Protect, Detect, Respond, Recover) participants will learn how to identify information that needs to be protected, improve processes to reduce risk, identify if the information has been compromised and learn how to recover from these compromises.

1 day of class | \$495/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- March 22, 2021 May 7, 2021
- August 6, 2021
- November 1, 2021



FOOD

FOREIGN SUPPLIER VERIFICATION PROGRAM (FSVP)

Gain the knowledge to implement the requirements of the "Foreign Supplier Verification Programs for Importers of Food for Humans and Animals" regulation of the U.S. Food and Drug Administration. This regulation implements the provisions of the 2011 Food Safety Modernization Act.

2 days of classes | \$595/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

May 10-11, 2021

FOOD PROCESSING SKILLS DEVELOPMENT

Join The Center as we cover topics small business owners and front-line workers in the food industry should know. Learn about current Good Manufacturing Practices and how to write them. Learn about the Food Safety Modernization Act, as well as how to identify and control hazards that impact your food safety plan. Lean culture, 5S, the eight types of waste and problem solving skills are addressed.

1 day of class | \$295/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

• Dates TBD. To view the most current schedule for this class, visit The-Center.org.

PREVENTIVE CONTROLS QUALIFIED INDIVIDUAL (PCOI)

To comply with new Food Safety Modernization Act (FSMA) guidelines, all food processing facilities are required to have someone within the organization PCQI certified. A PCQI is required to prepare and oversee the implementation of the facility's Food Safety Plan in compliance with FSMA requirements. Course topics include Food Safety Plan Development, Hazard Analysis & Preventive Controls, Verification & Validation Procedures, Corrective Action and Food Allergen Preventive Controls.

2 days of classes | \$895/person

SESSIONS AVAILABLE (8:00 AM - 6:00 PM)

- February 8-9, 2021
- June 1-2, 2021
- · September 29-30, 2021

NEW CLASS DATES ARE ADDED FREQUENTLY. For a complete schedule of all 2021 courses at The Center, visit The-Center.org.

08

GD&T/BLUEPRINT READING

BLUEPRINT READING (CEU Credits: .7)

How to interpret a technical drawing is an essential skill to anyone involved in the manufacturing industry, especially prior to learning GD&T. This Blueprint Reading course is designed for those who need an introduction to drawing interpretation.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- February 19, 2021
- March 16, 2021 (Benton Harbor)
- April 8, 2021 (Kalamazoo)
 April 12, 2021
- July 19, 2021
- September 9, 2021
- November 1, 2021

GD&T COMPREHENSIVE

Topics covered include:

- Evaluate tolerances for size, form, orientation and location
- · Interpret feature control frames for each GD&T symbol
- · Determine correct datum usage
- · Calculate "bonus" tolerance for MMC and LMC
- · Apply geometric tolerances to drawings
- Explain "composite" tolerancing for position and profile

2 days of classes | \$795/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

February 25-26, 2021
 May 25-26, 2021

GD&T FUNDAMENTALS

Learn the importance of the GD&T system, proper identification and call out of datum features, and the effect of modifiers, especially MMC. Attendees will also learn how GD&T saves money over traditional tolerances and how to interpret the 14 symbols.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 29, 2021
- March 30, 2021
- June 25, 2021
- September 16, 2021
- October 5, 2021
- (Benton Harbor)

(Kalamazoo)

TOLERANCE STACKS ANALYSIS

After learning GD&T concepts, many participants find they need a methodical way of adding tolerances into an overall stack-up analysis. The Tolerance Stacks program is designed for engineers and those who work with stacks. While there is no standard way to do stacks, a spreadsheet method is introduced which allows for both traditional plus/minus tolerances and geometric tolerances. MMC "bonus" and "shift" tolerances are covered.

2 days of ON-SITE TRAINING | \$4,000 (min. of 6, max. of 12 participants – additional \$50/participant for material)

LEADERSHIP

FINANCE FOR THE NON-FINANCIAL **MANAGER**

This class exposes non-financial managers to financial concepts that are relevant to managing any type of business, with an additional focus on manufacturing. The key concept is that managers make daily decisions that impact the financial health of the business, so they need to understand the basics of financial management.

½ day of class | \$295/person

SESSIONS AVAILABLE (8:00 AM - 12:00 PM)

- January 15, 2021
- May 25, 2021
- November 12, 2021

PRACTICAL APPROACH TO PROJECT MANAGEMENT USING SMARTSHEET (CEU Credits: 1.4)

This course focuses on the discipline of initiating, planning, executing, controlling and closing the work of a team to achieve specific goals and meet specific success criteria. After attending this course, learners will be able to understand the project manager's role in supporting strategic objectives that contribute to the bottom line. Gain leadership skills and business intelligence tools and techniques required to meet project requirements.

2 days of classes | \$1,200/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- February 5 & 12, 2021
- March 12 & 19, 2021
- April 27-28, 2021 (Sterling Heights)
- May 4-5, 2021 (Kalamazoo)
- June 4 & 11, 2021
- · August 6 & 13, 2021
- · October 1 & 8, 2021
- December 3 & 10, 2021

WHAT OUR CLIENTS ARE SAYING:

SUPERVISOR SKILLS

"Very motivating & engaging class. The instructor was amazing. I am definitely walking away with many tools & lessons I did not have before I attended this class. A+ in my opinion."

Crystal B., Warehouse Manager

LEADERSHIP

SUPERVISOR SKILLS (CEU Credits: 2.8)

Do you have an employee with leadership potential or a newly promoted supervisor or foreman and want to give them practical management training? This is the class you need. Get equipped with the knowledge and skills to thrive in today's management environment. Learn how to identify:

- · Various leadership styles
- · Different behavioral characteristics and how to relate to each
- · Communication barriers and how to overcome them
- · How to manage and maximize available time and decrease non-productive activities

4 days of classes | \$975/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 6, 8, 20 & 22, 2021
- February 2-3 & 9-10, 2021 (Sterling Heights)
- February 9-10 & 23-24, 2021
- February 25-26 & March 4-5, 2021 (Kalamazoo)
- March 16, 18, 23 & 25, 2021
- May 4-5 & 11-12, 2021
- May 18-19 & 25-26, 2021 (Kalamazoo)
- July 14-15 & 21-22, 2021
- July 22-23 & 29-30, 2021 (Benton Harbor)
- September 21-22 & 28-29, 2021
- · November 2, 3, 9 & 11, 2021
- December 1-2 & 8-9, 2021

SUPERVISOR SKILLS 2.0 - SUSTAINED LEADERSHIP PROGRAM (CEU Credits: 1.5)

Good leadership is not just characterized by the ability to motivate a group toward a common goal—it's the ability to cross over from being someone employees must follow to someone they want to follow. The Center's 18-hour Supervisor Skills 2.0 course will further equip participants with the knowledge and skills needed to become effective leaders. The participants in this interactive course will be acquainted with additional leadership skills necessary to relate to subordinates, peers and their managers in a productive and efficient manner. Topics covered include:

- · Power of Influence
- · Crucial Accountability
- · Knowing Your Social Style
- Exploring Learning Styles

Prerequisite: The Center's Supervisor Skills (CEU Credits: 2.8) course

3 days of classes | \$975/person

SESSIONS AVAILABLE (9:00 AM - 4:00 PM)

- March 23-25, 2021 (Sterling Heights)
- April 27-29, 2021
- August 10-12, 2021 (Kalamazoo)
- September 14-16, 2021
- September 28-30, 2021 (Benton Harbor)
- November 16-18, 2021

LEAN PRINCIPLES & **TECHNIQUES**

SS APPLICATION TRAINING

WANT TO SCHEDULE A COURSE AT YOUR LOCATION? CALL 888.414.6682.

The 5S program for the shop floor is a good starting point for a Lean manufacturing improvement activity. Participants will brainstorm methods for removing additional constraints from the manufacturing process in a specific model area within your organization. Learn the basic principles of 5S and successful implementation, the importance of an effective work environment, how to sustain change, and how to overcome issues associated with 5S.

1 ½ days of ON-SITE TRAINING | \$3,000 (min. of 5, max. of 7 participants)

5S/VISUAL MANAGEMENT & PULL **SYS**TEMS

Over time, most workplaces become cluttered with outdated and unnecessary information. This course provides the tools needed to clear the clutter and create a visual workplace where there is a place for everything. Learn how to transform a factory into a well-organized operation where messages concerning product quality, productivity, schedule and safety are accurately delivered.

1 day of class | \$495/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 14, 2021
- March 12, 2021
- May 7, 2021
- July 21, 2021
- October 7, 2021
- February 4, 2021
- · April 8, 2021
- · June 10, 2021
- August 5, 2021
- November 11, 2021

A3 PROBLEM SOLVING

Use problem solving tools to assist in the continual improvement process with emphasis on creating and implementing a Lean Business Strategy. Gain the knowledge to confidently measure and improve your processes through data driven decision making. An exercise in understanding and creating an A3 report is included.

½ day of class | \$295/person

SESSIONS AVAILABLE (8:00 AM - 12:00 PM)

- January 26, 2021
- February 16, 2021
- March 10, 2021 (Benton Harbor)
- · March 15, 2021
- April 20, 2021
- May 21, 2021
- · June 22, 2021
- July 13, 2021 (Kalamazoo)
- · July 22, 2021
- August 17, 2021
- · October 19, 2021

LEAN PRINCIPLES & TECHNIQUES

ADVANCED PROBLEM SOLVING: LEAN SIX SIGMA YELLOW BELT (CEU Credits: 2.1)

Lean Six Sigma Yellow Belt (LSSYB) training develops the skills of the professional who participates as a supporting team member in a variety of Six Sigma projects led by Six Sigma Green or Black Belts. Upon class completion (no project required), a LSSYB will understand the broad aspects and foundational elements of Lean Six Sigma methodology. Gain the knowledge to implement, perform, interpret and apply Lean Six Sigma principles in a skilled, yet limited and/or supportive context.

3 days of classes | \$1,500/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 18-20, 2021
 May 11-13, 2021 • July 13-15, 2021 (Kalamazoo)
- September 28-30, 2021 December 14-16, 2021

ERROR PROOFING/POKA-YOKE

Understand the benefits of building in quality at the source. Implement methods or devices into the manufacturing process instead of inspection only at the end of the process. Best practice examples of how companies prevent errors or defects are introduced. A hands-on factory simulation is included.

½ day of class | \$295/person

SESSIONS AVAILABLE (1:00 PM - 5:00 PM)

- January 26, 2021
- February 16, 2021
- March 10, 2021
- March 15, 2021
- (Benton Harbor)
- April 20, 2021
- May 21, 2021
- June 22, 2021
- July 13, 2021 (Kalamazoo)
 July 22, 2021
- August 17, 2021
- · October 19, 2021



KAIZEN PRACTITIONER

A typical Kaizen event for each model area/product group consists of five days of focused team activity. Participants learn the benefits, characteristics, building blocks, and key performance measures as they facilitate a successful Kaizen event in their own organization. Kaizens available include 5S, Single Minute Exchange of Dies, Total Productive Maintenance and Kanban. Objectives include:

- · Understand Kaizen and basic steps for success
- Document plant layout with Value Stream Mapping
- · Document strengths and opportunities in model area
- Apply Lean tools and techniques where applicable
- · Balance the workload and restructure the work area to eliminate waste

5 days of ON-SITE TRAINING | \$10,000 (min. of 5, max. of 7 participants)

LEAN MANUFACTURING CHAMPION: CONTINUOUS IMPROVEMENT WITH TECHNOLOGY (CFU Credits: 5.6)

This training helps organizations successfully implement proven techniques for eliminating waste. Using competency-based and hands-on approaches, this course provides team leaders the knowledge and skills to apply Lean business solutions within their own operations, resulting in reductions in the time and cost to execute business processes. Participants will transform a traditional batch-process into a Lean cellular manufacturing process in our The Center's simulated factory.

* It is recommended that an executive management team member who will be sponsoring the company-wide Lean initiative attends the culture piece on day one to acknowledge commitment of resources and to ensure management objectives and Lean improvement ideas.

8 days of classes | \$2,800/person -OR-5 days of ON-SITE TRAINING | \$14,000 | Includes 6-8 participants; No CEUs Offered; (\$1,400 additional per person up to 12)

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 11-14 & 25-28, 2021
- February 1-4 & 15-18, 2021
- April 5-8 & 19-22, 2021
- · June 7-10 & 21-24, 2021
- August 2-5 & 16-19, 2021
- · October 4-7 & 18-21, 2021

LEAN OFFICE CHAMPION (CEU Credits: 2.1)

Apply Lean principles, beyond the manufacturing floor, right to your front door. Typically 70% of labor costs are attributed to above-the-shop-floor activities including support operations such as quoting, accounting, sales and engineering. This training offers a comprehensive hands-on approach to teach team leaders how to identify opportunities for improvement through reduction in TIME conducting transactional activities.

3 days of classes | \$1,500/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- March 2-4, 2021
- June 14-16, 2021
- September 14-16, 2021
 October 26-28, 2021

NEW CLASS DATES ARE ADDED FREQUENTLY.

For a complete schedule of all 2021 courses at The Center, visit The-Center.org.

LEAN PRINCIPLES & TECHNIQUES



LEAN SIMULATION

Simulation training will help participants understand how Lean philosophy and techniques can be applied to maximize customer value, minimize waste, and reduce costs through workplace organization and visual controls, cellular manufacturing and one-piece flow, quality at the source, and pull scheduling. The simulation will let participants go through three rounds of setting up a Lean factory. More time is spent learning how a company can transform a traditional manufacturing firm into a Lean producer by focusing on material and information flow resulting in lead-time reductions, improved on-time shipments and quality, increased labor productivity and waste elimination. This class can be designed for low volume/high mix (Timewise) OR high volume/low mix (Buzz) manufacturing environments.

8 hours of ON-SITE TRAINING | \$3,200 (min. of 10, max. of 15 participants)

LEAN SIX SIGMA GREEN BELT (CEU Credits: 5.6)

Lean Six Sigma Green Belt (LSSGB) training covers the application of established Lean and six sigma techniques to remove wastes, improve operational speed, lower costs and increase customer satisfaction. This certification focuses on improved quality and accuracy, minimized cost and variation, on-time delivery and optimized operational speed; all which enable organizations to become more efficient and profitable producers. Participants receive a LSSGB certification upon submission of a Lean Six Sigma project report that is reviewed and approved by our Six Sigma Master Black Belt.

* A project sponsor is strongly recommended and is expected to attend the first session.

8 days of classes | \$3,450/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- April 13-16 & 27-30, 2021
- November 2-5 & 16-19, 2021

RISK MANAGEMENT & TOTAL COST OF OWNERSHIP FOR SUPPLY CHAIN

Risk is everywhere and it impacts companies large and small. This training session helps you to identify the triggers of risk events, the importance of developing a plan to mitigate them when they do occur, and how to establish monitoring metrics and activities so you may be prepared for the inevitable. Participants will also learn how Total Cost of Ownership allows companies to account financially for each activity along the supply chain including costs associated with the acquisition of materials, transportation, storage, and the selling of purchased good or services.

1 day of class | \$495/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- April 9, 2021
- April 13, 2021 (Kalamazoo)
- · July 27, 2021
- August 27, 2021

SET-UP TIME REDUCTION (SMED/QCO)

This course focuses on reducing set-up times in order to increase flexibility. Single Minute Exchange of Dies (SMED) refers to the theory and techniques for performing set-up operations in less than 10 minutes. Participants will learn how inexpensive techniques can be implemented to achieve quick changeovers (QCO), which can improve production and reduce waste.

1 ½ days of ON-SITE TRAINING | \$3,000 (min. of 5, max. of 7 participants)

STANDARD WORK

A key ingredient in the creation of a Lean enterprise, Standard Work is a set of procedures for each operational process that documents the most effective, balanced combination of people, machines, materials, and space to meet customer demand. Without Standard Work, processes will change for operational convenience, which are often not in the best interest of the organization or customer.

1 day of class | \$495/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- March 11, 2021
- May 14, 2021
- June 8, 2021
- August 3, 2021
- January 12, 2021
 February 2, 2021
 - April 6, 2021
 - June 1, 2021 (Kalamazoo)
 - July 20, 2021
 - October 5, 2021



TOTAL PRODUCTIVE MAINTENANCE (TPM) APPLICATION TRAINING

Teach operations the philosophy and skills necessary to transform productive maintenance activities from a "cost burden" to a "cost savings." At the end of instruction, clients should understand:

- The principles and benefits of TPM and autonomous maintenance
- Calculate Overall Equipment Effectiveness
- The role maintenance provides in continuous improvement
- · Improvements made at the shop level can dramatically improve overall company performance

1 ½ days of ON-SITE TRAINING | \$3,000 (min. of 5, max. of 7 participants)

LEAN PRINCIPLES & **TECHNIQUES**

TOTAL PRODUCTIVE MAINTENANCE/ QUICK CHANGEOVER (TPM/QCO)

Learn how to calculate and use Overall Equipment Effectiveness, the key metric for measuring equipment performance. Emphasis is placed on the importance of teamwork and integration between production and maintenance departments. Two hours of this session focus on reducing set-up times for manufacturers, increasing flexibility. Frequent set-ups are necessary to produce a variety of goods in small lots (low volume-high mix). Inexpensive but highly effective techniques are shown to achieve quick changeovers.

1 day of class | \$495/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 25, 2021
- February 15, 2021
- April 19, 2021
- June 21, 2021
- August 16, 2021
- · October 18, 2021

UNDERSTANDING LEAN PRINCIPLES & TECHNIQUES 4.0

Understanding Lean Principles & Techniques 4.0 demonstrates how Lean can be applied to an organization to maximize customer value, minimize waste, and reduce costs through workplace organization and visual controls, cellular manufacturing, quality at the source and pull scheduling. This three-round, Lean factory simulation gives participants an understanding of how Lean principles, when effectively applied, can positively impact their company. Learn how to transform a traditional manufacturer into a Lean producer by focusing on material and information flow resulting in lead-time reductions.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- March 17, 2021
- April 9, 2021 (Kalamazoo)
- July 12, 2021
- November 5, 2021

VALUE STREAM MAPPING & DEPLOYMENT PLAN

Value-Stream Mapping helps clients see manufacturing processes as a Lean production system. Learn how to redesign manufacturing and information flow processes to maximize customer value while minimizing costs and waste. Participants will develop value stream maps on a product/product family, including developing a current state value stream map, identifying waste areas, and creating a future state value stream map. Students then learn how to create a deployment plan to ensure that the future state becomes a reality.

2 days of ON-SITE TRAINING | \$3,600 (min. of 6, max. of 10 participants)

QUALITY MANAGEMENT

8D PROBLEM SOLVING (CEU Credits: .7)

Root cause analysis and problem-solving tools are presented and demonstrated in this session. Both internal (yield issues) and external (warranty, field failure, customer complaint) problems are introduced. Understanding is gained through practical, hands-on exercises using common measurement gauges. Problems are introduced to demonstrate the typical formats for reporting the findings, applying solutions and corrections.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 19, 2021
- February 8, 2021
- March 26, 2021
- May 4, 2021
- May 25, 2021
- (Sterling Heights) • July 16, 2021
- July 15, 2021 (Kalamazoo) September 10, 2021
- September 21, 2021
- November 30, 2021
 - (Benton Harbor)

AIAG/VDA FMEA FOR PRACTITIONERS (CEU Credits: 1.4)

This two-day interactive course will equip participants with the knowledge and skills needed to complete the new FMEA methodology, which includes the activities surrounding the 7-Step Approach and use of Action Priority ratings. The 7 Steps are covered with exercises designed to ensure maximum understanding.

At course completion, participants will have the tools needed to objectively evaluate the effectiveness of their current FMEA process while planning and using the new AIAG-VDA-FMEA process.

2 days of classes | \$795/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 21-22, 2021
- June 29-30, 2021
- November 4-5, 2021 (Kalamazoo)

AS 9100D INTERNAL AUDITOR (CEU Credits: 2.1)

Better understand the specifics of the AS 9100D aerospace system and how to audit to it. Learn how various requirements may, or may not, apply to your organization and be better prepared to implement, understand, and audit your system. Auditor tips are studied as well as scheduling, planning, and performing audits. Participants will conduct several mock audits through the process and will gain a practical understanding of both the ISO 9001 and AS 9100 system audit programs.

3 days of classes | \$995/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- March 30-31 & April 1, 2021
- September 20-22, 2021

QUALITY MANAGEMENT

CORE TOOLS: APQP, PPAP AND FMEA (CEU Credits: 1.4)

This course blends APQP, PPAP and FMEA and guides participants through the steps of the launch process. Utilized correctly, the deployment of these core tools leads to continuous improvement, defect prevention and reduction in variation and waste.

2 days of classes | \$795/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- February 23-24, 2021
- March 9-10, 2021 (Kalamazoo)
- March 31 & April 1, 2021
- April 20-21, 2021 (Sterling Heights)
- May 17-18, 2021
- June 1-2, 2021
- August 26-27, 2021
- September 14-15, 2021 (Benton Harbor)
- October 14-15, 2021
- December 9-10, 2021

CORE TOOLS: MEASUREMENT SYSTEMS ANALYSIS (CEU Credits: .7)

Measurement Systems Analysis (MSA) examines sources of variation in the measurement process, as well as information about measurement characteristics based on accuracy, precision and stability.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- · January 18, 2021
- February 16, 2021 (Sterling Heights)
- March 22, 2021
- June 8, 2021 (Benton Harbor)
- · June 17, 2021
- September 17, 2021

CORE TOOLS: STATISTICAL PROCESS CONTROL (CEU Credits: .7)

Attendees run a group of sequentially produced parts and measure them to determine average, range and sigma. Control limits are calculated, and additional samples are measured and plotted to determine where the process is going and why. Interpretations of results and capability study exercises are addressed.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 21, 2021
- July 23, 2021
- September 13, 2021
- September 28, 2021 (Kalamazoo)

IATF 16949:2016 INTERNAL AUDITOR (CEU Credits: 2.8)

Emphasis is placed on effective auditing processes, skills and techniques. Participants will learn how to develop an audit plan and report required for management review. Corrective and preventive actions will be reviewed. Clear definitions of the five clauses of the IATF 16949 requirements are covered. Participants will also be introduced to techniques for interfacing with third party registrars, as well as non-intrusive auditing practices.

4 days of classes | \$1,195/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- February 8-11, 2021
- March 2-5, 2021 (Sterling Heights)
- May 3-6, 2021
- August 2-5, 2021 (Kalamazoo)
- · August 23-26, 2021

ISO 9001:2015 INTERNAL AUDITOR

(CEU Credits: 2.1)

Learn the information necessary for conducting internal quality audits. Emphasis is placed on effective auditing processes, skills and techniques. Participants will be instructed in developing an audit plan and the audit report required for management review. Corrective and preventive action will be reviewed, as well as the 2015 standards and requirements.

3 days of classes | \$995/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- February 23-25, 2021
 May 11-13, 2021
- August 9-11, 2021 October 26-28, 2021
- December 6-8, 2021

ISO 13485:2016 INTERNAL AUDITOR

(CEU Credits: 2.8)

Understand the specifics of the ISO 13485 Medical Device system, and how to audit to it. Learn how the various requirements may, or may not, apply to your type of organization and be better prepared to implement, understand, and audit your system. Auditor tips and techniques are studied as well as scheduling, planning, and performing audits. You will conduct several mock audits and end with a practical understanding of both the ISO 9001 and added ISO 13485 system audit programs.

4 days of classes | \$1,195/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

February 23-26, 2021
 August 9-12, 2021

14

QUALITY MANAGEMENT

ISO 14001:2015 INTERNAL AUDITOR (CEU Credits: 1.4)

The ISO 14001:2015 Internal Auditor course will quickly acquaint you with the ISO 14001:2015 standards and requirements. This class will cover ISO 14001:2015 elements and standards, how to diagnose conformances and non-conformances, details of the audit process, measures for implementing corrective action, structured steps for conducting an audit, and structures sequence of a typical audit via an interactive simulation session.

2 days of classes | \$795/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 19-20, 2021 (Sterling Heights)
- · June 29-30, 2021 March 8-9, 2021
- November 11-12, 2021



LAYERED PROCESS AUDIT

Layered Process Audits (LPAs) offer companies tremendous potential benefits. They involve all plant personnel, including multiple levels of management, and cover all key areas in the manufacturing process. Creating an LPA system that is truly effective and obtaining the best, most accurate results requires a solid plan, detailed preparation and knowledgeable personnel.

Learn how to plan, prepare and conduct an LPA on your company's manufacturing processes. Through a combination of coursework and practical application, our instructor will guide you to establish the necessary planning, checklists and reports through hands-on mentoring in a familiar environment.

6 hours of ON-SITE TRAINING | \$2,000 (min. of 5, max. of 8 participants)

RISK MANAGEMENT USING FMEA (CEU Credits: 1.4)

Learn the steps of Risk Management using the tool of Failure Mode Effects Analysis (FMEA) to define, manage, and reduce risks. Processes also used in this training include brainstorming, creating SIPOCs and Process Flowcharts to help in the understanding and analysis of the process. Get to know each step of an FMEA, with exercises designed to ensure maximum understanding of both Design FMEA and Process FMEA.

2 days of classes | \$795/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- March 8-9, 2021
- May 5-6, 2021 (Kalamazoo)
- May 11-12, 2021 (Sterling Heights)
- May 26-27, 2021
- July 12-13, 2021
- September 23-24, 2021

SALES DEVELOPMENT & MARKET RESEARCH

MARKET RESEARCH TOOLS

Market research is an imperative step in the strategic decision making process. Now is the time to start developing in-house market research initiatives. Learn about free and low-cost resources for investigating the competitive landscape, industry trends, and other key market data, as well as how to collect information on customer perceptions, level of satisfaction, and other key metrics using online surveys. Topics include competitive intelligence, prospect list generation, market analysis, and more.

1 ½ days of classes | \$795/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM/8:00 AM-12:00 PM)

· Dates TBD. To view the most current schedule for this class, visit The-Center.org.

SALES ACCELERATION

This course includes the development of a customer specific process in a group setting. The tools used will allow the customer to gain knowledge and transfer that knowledge to their organization. The session ends with a "sales meeting" held by the Sales Manager (Instructor), setting the tone for the transfer back to the company.

2 days of classes | \$799/per company up to 2 people

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- March 23-24, 2021
- July 21-22, 2021 (Kalamazoo)



SIX SIGMA

SIX SIGMA BLACK BELT (CEU Credits: 7.0)

Training employees as Six Sigma Black Belts will provide the valuable skills needed to tackle the toughest problems confronting your organization by coupling the proven Define, Measure, Analyze, Improve, and Control (DMAIC) problemsolving methodology with robust statistical tools. Six Sigma offers a carefully defined road map for achieving business process improvements. Black belt trainees obtain a solid understanding of the tools and methods associated with the Six Sigma approach.

The pace of instruction allows trainees to absorb and quickly deploy Six Sigma. With each session, trainees can immediately apply newly acquired skills to their certification project. This improves the retention of key Six Sigma principles, reinforces contextual learning and builds trainee confidence. On-site mentoring by the instructor allows for any fine-tuning with the trainee and his/her sponsor in their own work environment.

Certification Timeline: The Black Belt candidate is expected to certify within 12 months of the first day of class. If the time line is not met there will be a late fee for certification. The penalty for late certification increases with time.

* Participation of a project sponsor (usually the candidate's manager or other company leader) is a requirement for Black Belt certification. A sponsor is expected to attend the first training session with the Black Belt candidate, and to be involved in the project review sessions occurring throughout the certification process.

10 days of classes | \$7,350/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- February 10-12, 25-26 & March 8-10, 24-25, 2021
- September 21-23, October 12-13, November 8-10 & December1-2, 2021

SIX SIGMA GREEN BELT (CEU Credits: 3.5)

From executive leaders to front-line employees, Six Sigma Green Belt training enhances the way employees approach their day-to-day work. Providing employees with Six Sigma Green Belt training equips them with a logical and objective way to identify, measure and eliminate problems within an organization. Suddenly, employees don't have to just cope with process problems – they begin to recognize and implement solutions to them.

A blend of DMAIC project management methods and practical data analysis techniques provide employees with new ways to contribute to the bottom line.

Certification Timeline: At the end of the course, each participant will receive a certificate of completion for attending. Certification has three elements: participant has attended all session days, has passed the final exam and provided evidence of involvement in a Six Sigma project to the instructor in the form of a project report.

* A project sponsor is strongly recommended and ensures that project efforts are consistent with the organization's overall strategy. A sponsor is expected to attend the first training session, and to be involved in the project review sessions throughout the certification process.

5 days of classes | \$2,800/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- May 4-6 & 18-19, 2021
- August 10-12 & 24-25, 2021

ADVANCED PROBLEM SOLVING: LEAN SIX SIGMA YELLOW BELT (see pg. 11)

LEAN SIX SIGMA GREEN BELT (see pg. 12)

WORKFORCE ENGAGEMENT

BUILDING BETTER TEAMS

Team building is an activity-based training that will provide participants an understanding of the importance of teamwork. It creates a climate that encourages and values team member contributions towards problem solving and continuous improvement. Through a variety of activities, participants experience challenges teams face. Team members will also learn how to analyze and discuss behavioral characteristics of people. These individual attributes contribute to mutual trust, allowing teams to learn from each other by sharing information, skills and experiences.

1 day of class | \$395/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- April 15, 2021 (Sterling Heights)
- May 7, 2021
- November 30, 2021

BUILDING YOUR EMPLOYEE EXPERIENCE (CEU Credits: 1.4)

In this two-day session, participants examine an employee experience framework along with the required HR systems. An Employee Experience Maturity Model is used to build a unique plan to cultivate a stronger employer brand, improve employee engagement and enable improved business results. Participants leave with the ability to build effective HR principles and skillfully enhance employee experiences.

2 days of classes | \$995/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- February 11-12, 2021
- March 4-5, 2021
- March 16-17, 2021 (Kalamazoo)
- · April 1-2, 2021 (Benton Harbor)
- · June 3-4, 2021
- November 18-19, 2021

MANUFACTURING SKILLS DEVELOPMENT (CEU Credits: 1.4)

This training is designed for students who are either new to the manufacturing environment or those who need a more thorough understanding of manufacturing. Manufacturing Skills Development will provide a foundation for the processes, approach and culture needed to run an effective and efficient operation. The following topics are covered:

- Quality Management Systems (4 hrs.) Students are introduced to the systems and processes necessary to deliver a conforming product on time and satisfy the customer by controlling variation in the process.
- Problem Solving Skills (4 hrs.) Learn the various techniques for problem solving in the manufacturing environment, focusing on the ability to identify the problem, isolate the root cause, and document the process.
- Lean Manufacturing (4 hrs.) Gain an understanding of Lean principles and techniques and how they can be applied to maximize customer value, minimize waste and reduce cost. Students also will learn about the eight types of waste in every organization and what constitutes a value-added process.
- Culture & Motivation (4 hrs.) Learn the methods and means for operational communication, motivational techniques and conflict management.

2 days of classes | \$995/person

SESSIONS AVAILABLE (8:00 AM - 5:00 PM)

- January 18-19, 2021
- March 15-16, 2021
- April 22-23, 2021 (Kalamazoo)
- September 9-10, 2021

NEW CLASS DATES ARE ADDED FREQUENTLY.
For a complete schedule of all 2021 courses at The Center, visit The-Center.org.



Many believe soft skills don't matter as much in a manufacturing career, as technical knowledge is the focus of most work in the industry. However, it is clear that 'soft' skills such as time management, organization, communication and leadership are essential when it comes to being a successful and well-rounded manufacturing employee.

To understand the importance of these soft skills, read on to see how different skills can be applied in a manufacturing setting to foster collaboration and support improvements in productivity, delivery and employee morale.

PROBLEM SOLVING. The ability to think critically about problems to identify root causes and countermeasures is necessary in all careers, including manufacturing. According to the National Association of Colleges and Employers Job Outlook 2017 survey, 77% of employers say they favor candidates who can think critically. This skill is regularly used in manufacturing, both with conflict resolution between workers and with troubleshooting issues in production.

LEADERSHIP. Making conscious efforts to support inclusion, teamwork and motivation among co-workers will result in more collaboration and stronger relationships within the team. This will support continuous improvement initiatives in the facility as teams will work better together to brainstorm innovative ways to improve operations.

COMMUNICATION. Lack of effective communication skills can be largely detrimental to a worker's success - and the success of the organization. No matter how technically talented an employee might be, performance can be hindered if they do not have the communication skills needed for everyday interactions at work. Misunderstandings can occur when dealing with customers, or, worse yet, when explaining procedures for operating machinery to other workers.

ADAPTABILITY. In manufacturing, it is essential that workers can think on their feet and adapt to disruptions or changes in production. This is especially true with the rise of Industry 4.0, as workers must stay up to date on the latest process improvements and be able to quickly adjust to any new practices or equipment.

When looking to hire or promote workers, consider choosing the candidate with the strongest soft skills. While technical skills will fill immediate gaps in operations, soft skills will help both employers and employees find success for years to come.

NINE TECHNOLOGY TRENDS FORM THE BUILDING **BLOCKS OF INDUSTRY 4.0** THE CENTER **INDUSTRY 4.0**

NOTES			

NOTES

FOR MORE INFORMATION REGARDING OUR CERTIFICATE COURSES, CONTACT YOUR MICHIGAN MANUFACTURING TECHNOLOGY CENTER SENIOR BUSINESS **SOLUTIONS MANAGER:**

269.491.3219

MGettel@the-center.org serving Berrien, Branch, Calhoun, Cass, Kalamazoo, St. Joseph & Van Buren counties

GARY MARLEY

734.451.4273 GMarley@the-center.org serving Livingston & Oakland

DAVE NELSON

734 451 4275 DNelson@the-center.org serving Monroe & Wayne counties

TRICIA ONESIAN

734.451.4274 TOnesian@the-center.org statewide consultant

RON QUINKERT

734.451.4217 RQuinkert@the-center.org

serving Clinton, Eaton, Hillsdale, Ingham, Jackson, Shiawassee, Lenawee & Washtenaw counties

734.451.4259 PSchmidt@the-center.org serving Macomb county

