

Grand Rapids Community College

Course Cover Sheet



**M-CAM Training Area:**

CNC/Machining  Multi-Skilled/Mechatronics  Production Operation  Welding/Fabrications

**Program(s):** Pathways to Success in Manufacturing (CPT)

**Course:** Pathways to Success in Manufacturing (CPT)

**Course Description:** 5-week, part-time non-credit certificate course

**Date Created:** 2015

**Faculty Developer(s)/Instructional Designers(s):** Dan Keyes, Sara Yob, Steven Ray

**Employer/Industry Partner:** Custom Profile, Michigan Works, US District Court

**College Contact:** David Lovell, M-CAM Program Manager

**Phone:** 616-234-3168

**Email:** davidlovell@grcc.edu

**Additional Information/Comments:**

The Pathways to Success in Manufacturing (CPT) course was developed to satisfy local employer needs for production workers with more skill sets than just entry level. Employers from the M-CAM Steering Committee Discover Manufacturing communicated a need and were involved in determining course learning outcomes. The program intentionally included as many industry recognized credentials to help equip participants with the ability to overcome the criminal-background barrier.

This workforce solution was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

The eight community colleges and MCAM is an equal opportunity employer/program provider. Auxiliary aids and services are available upon request to individuals with disabilities. TTY users please call 1-877-878-8464 or visit [www.michigan.gov/mdcr](http://www.michigan.gov/mdcr)."

This work is licensed under a Creative Commons Attribution 4.0 International License.



**M-CAM** Bay de Noc | Grand Rapids | Kellogg | Lake Michigan | Lansing | Macomb | Mott | Schoolcraft



## Manufacturing Readiness Program Learning Outcomes Pertinent to ESL CPT

Note: Learning outcomes are integrated into active learning situations and assessed via student led demonstration of skills attainment.

### Learning Outcomes:

#### Communication/Teamwork:

1. Identify interpersonal characteristics of a team player
2. Demonstrate the characteristics of a team player
3. Apply group dynamic principles to manufacturing situations.
4. Select appropriate communication methods
5. Interpret and clarify directions prepared by others.

#### Math and Measurement:

6. Apply basic math functions to solve problems.
7. Create and interpret basic graphs and charts commonly used in manufacturing.
8. Determine the role of measurement in manufacturing
9. Demonstrate the proper general measurement techniques
10. Explain calibration requirements of various measuring instruments.
11. Convert between US and metric measurement systems.

#### Problem Solving:

12. Explain the value of applying a problem solving system.
13. Develop a system of problem solving.

#### Quality Assurance:

14. Explain the effect of quality on profit.
15. Identify the effects of continuous quality improvement
16. Demonstrate the ability to apply continuous quality improvement to the manufacturing process.

#### Blueprint Reading:

17. Define basic blueprint terminology
18. Identify general note symbols
19. Locate notes on a print.

#### Workplace Skills:

20. Demonstrate consistently punctual arrival.
21. Demonstrate enthusiasm and confidence about work and learning new tasks.
22. Demonstrate appropriate dress and hygiene for successful employment
23. Demonstrate the ability to act in a polite and respectful way towards co-workers.
24. Plan and organize work.



Week 2: 1/5-8/16	Wednesday 1/13	Thursday 1/14	Friday 1/15	Learner Outcomes/ Content
7:30-8:30 AM	First Aid/CPR (Mary McGraw) Confirmed by EI	Site Visit - Hewlett Packard company (Eve)	Working in Teams (Sara)	Learner Outcomes/ Content Effective teams Roles/responsibilities and Goals Stages Clear expectations
8:30-9:30 AM	First Aid/CPR (Mary McGraw)	Site Visit - Hewlett Packard company (Eve)	Working in Teams (Sara)	Decision Making Decision making methods Source of team conflict Groupthink
9:30-10:30 AM	First Aid/CPR (Mary McGraw)	Site Visit - Hewlett Packard company (Eve)	Working in Teams (Sara)	DISC - understanding ourselves and others
10:30-11:30 AM	First Aid/CPR (Mary McGraw)	Site Visit - Hewlett Packard company (Eve)	Working in Teams (Sara)	Meeting tools/techniques
11:30 AM-Noon	Lunch	Lunch	Lunch	
Noon-12:30 PM	First Aid/CPR (Mary McGraw)	Employability (David & John)	OSHA (Steven)	
12:30-1:30 PM	First Aid/CPR (Mary McGraw)	Employability (David & John)	OSHA (Steven)	
1:30-2 PM	First Aid/CPR (Mary McGraw)	Employability (David & John)	OSHA (Steven)	
2-2:30 PM	Agility & Dexterity (Dan)	Employability (David & John)	Manufacturing Math (Steven)	
2:30-3 PM	Agility & Dexterity (Dan)	Employability (David & John)	Manufacturing Math (Steven)	
Week 3: 1/12-5/16	Friday 1/12	Thursday 1/14	Friday 1/15	Learner Outcomes/ Content Resume work time and first draft submission
8:30-9:30 AM	Employability (David)	CPT Quality - Dan	Employability (David & John)	
9:30-10:30 AM	Employability (David)	CPT Quality - Dan	Employability (David & John)	
10:30-11:30 AM	Employability (David)	CPT Quality - Dan	Employability (David & John)	
11:30 AM-Noon	Lunch	Lunch	Lunch	
Noon-12:30 PM	OSHA 30 & CPT (Steven)	OSHA 30 & CPT (Steven)	OSHA 30 & CPT (Steven)	
12:30-1:30 PM	OSHA 30 & CPT (Steven)	OSHA 30 & CPT (Steven)	OSHA 30 & CPT (Steven)	
1:30-2 PM	OSHA 30 & CPT (Steven)	OSHA 30 & CPT (Steven)	OSHA 30 & CPT (Steven)	

7:30-8:30 AM	Employability (David & John)	Interview skills lesson presentation, discussion, Dress for Success: What, How, Why technique for question response. Discussing potential criminal history.	CPT Quality/Refresh - Sara	SPC Average Range Chart - calculate	Teamwork refresh/Measuring refresh & any CPT - Sara	High Perf Mfg feedback - Teams sections 4-4.3 - complete mini lab on pg. 156 to homework solutions	Employability 7 team	Employer interviews (1/2) of student count. Organized and facilitated by job development/employability staff.
8:30-9:30 AM	Employability (David & John)	Mock Interviews with staffing agencies or job developers. Written feedback submitted to Employability staff.	CPT Quality/Refresh - Sara	SPC Average Range Chart - analyze	Teamwork refresh/Measuring refresh & any CPT - Sara	High Perf Mfg feedback - Prod Components Chapter 13 knowledge check - matching vocabulary terms	Employer interviews (David, John, Erica, John VE)	
9:30-10:30 AM	Employability & Interview prep (more staffing firms?) David & John		CPT Quality/Refresh - Sara	On line Tooling U modules for Q, Mfg Proc	Teamwork refresh/Measuring refresh & any CPT - Sara		Employer interviews (David, John, Erica, John VE)	
10:30-11:30 AM			CPT Quality/Refresh - Sara	Online Tooling U modules for Q, Mfg Proc	Teamwork refresh/Measuring refresh & any CPT - Sara		Employer interviews (David, John, Erica, John VE)	
11:30 AM-Noon	Lunch		Lunch		Teamwork refresh/Measuring refresh & any CPT - Sara	On-line Tooling U modules to complete designed online portions of curriculum. (see MSSC is tooling U matrix)	Employer interviews (David, John, Erica, John VE)	
Noon-12:30 PM	OSHA 30 & CPT or Manufacturing Math (Steven)		OSHA 30 & CPT or Manufacturing Math (Steven)		Teamwork refresh/Measuring refresh & any CPT - Sara		Celebration Lunch	
12:30-1:30 PM	OSHA 30 & CPT or Manufacturing Math (Steven)		OSHA 30 & CPT or Manufacturing Math (Steven)		Teamwork refresh/Measuring refresh & any CPT - Sara	Mock Interview feedback one-on-one coaching, group interview trends and feedback discussion.	Celebration Lunch	
1:30-2 PM	OSHA 30 & CPT or Manufacturing Math (Steven)		OSHA 30 & CPT or Manufacturing Math (Steven)		Employability (David & John)		Graduation (John VE to invite court groups)	
2-2:30 PM	OSHA 30 & CPT or Manufacturing Math (Steven)		OSHA 30 & CPT or Manufacturing Math (Steven)		Any other interview prep (Coaches & Job Developers with John Vanelis)	Researching employers and employment opportunities for interviews. Prepare questions.	Graduation	
2:30-3 PM	OSHA 30 & CPT or Manufacturing Math (Steven)		OSHA 30 & CPT or Manufacturing Math (Steven)		Any other interview prep (Coaches & Job Developers with John Vanelis)		Graduation	

# HIGH-PERFORMANCE MANUFACTURING

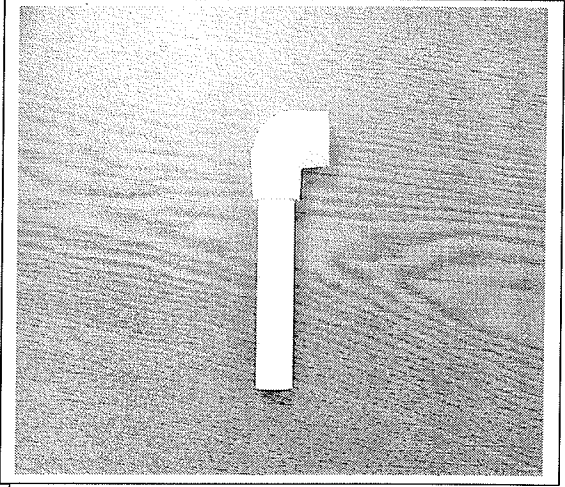
PORTABLE PRODUCTION SKILLS



Mc  
Graw  
Hill  
Education

# Standardized Work Chart

<b>Division: Acoustic</b>		<b>Dept: 514,515</b>		<b>Zone: Green</b>		<b>Takt time: 20 sec</b>	
<b>Operation: MB2003 Assembly station: Weld</b>				Prepared by: SY		<b>Cycle time: 3 sec</b>	
Step #	Work Element Description	Processing time			Work Station		
		Manual	machine	walking			
1	Get 1 elbow and 1 straight tube	1sec					



2	Assemble parts as	J tube				
3	Group in designated lot size	1sec				
4	Repeat process					

# Standardized Work Chart

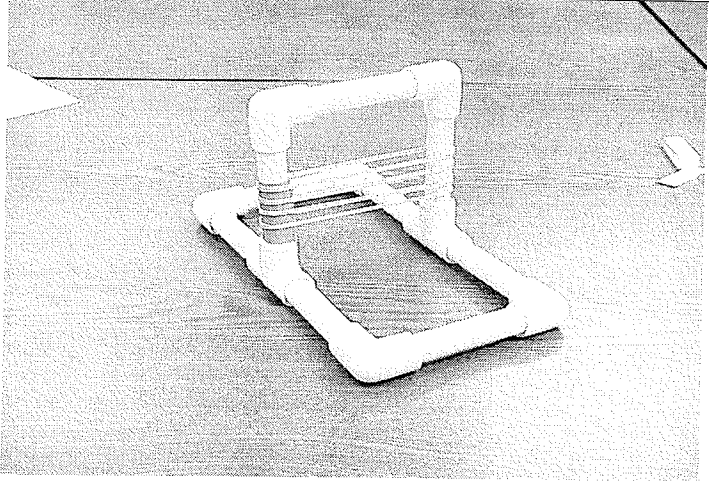
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
Total time		3 sec		

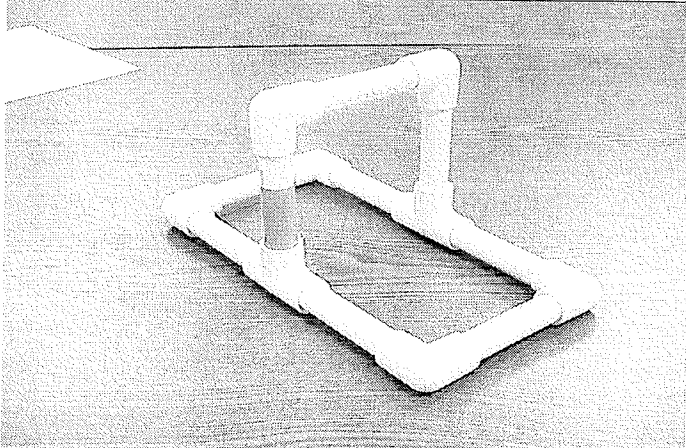


## LEAN SIMULATION / FINANCIAL ANALYSIS

	Round 1	Round 2	Round 3
<b>REVENUE</b>			
# OF BANJOS SHIPPED X \$200	\$	\$	\$
<b>COST</b>			
<b>MATERIAL:</b> # OF BANJOS SHIPPED X \$40	\$	\$	\$
<b>LABOR:</b> # OF TEAM MEMBERS X \$165	\$	\$	\$
<b>WORK-IN-PROCESS</b>			
# WELDED X \$5	\$	\$	\$
# ASSYED X \$35	\$	\$	\$
# LABELED X \$40	\$	\$	\$
# STRUNG X \$55	\$	\$	\$
<b>TOTAL W-I-P</b>	\$	\$	\$
<b>SCRAP</b> # X \$40	\$	\$	\$
<b>OVERHEAD</b> # OF TABLES X \$150	\$	\$	\$
<b>TOTAL COST</b>	\$	\$	\$
<b>NET PROFIT (LOSS)</b>	\$	\$	\$

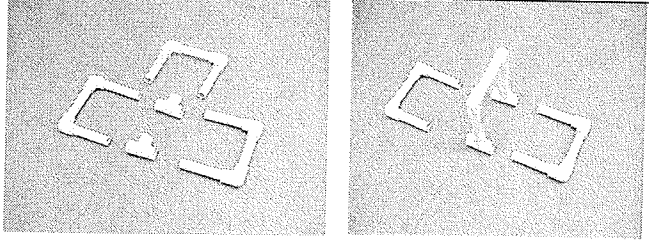
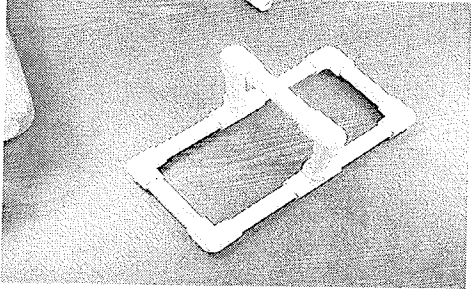
# Standardized Work Chart

<b>Division: Acoustic</b>		<b>Dept: 514,515</b>			<b>Zone: Green</b>	<b>Takt time: 20 sec</b>
<b>Operation: MB2003 Assembly station: String</b>					Prepared by: SY	<b>Cycle time: 18 sec</b>
Step #	Work Element Description	Processing time			<b>Work Station</b>	
		Manual	machine	Walking		
1	Take labeled banjo body and 4 rubber bands	4 sec				
2	Install as shown	12sec				
3	Group in designated lot size	2 sec				
4	Repeat process					
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
<b>Total time</b>		<b>18sec</b>			<div style="border: 1px solid black; padding: 5px; display: inline-block;">Michigan Banjo</div>	

<b>Division: Acoustic</b>		<b>Dept: 514,515</b>			<b>Zone: Green</b>	<b>Takt time: 20 sec</b>
<b>Operation: MB2003 Assembly station: Label- And inspect</b>					Prepared by: SY	<b>Cycle time: 7 sec</b>
Step #	Work Element Description	Processing time			<b>Work Station</b>	
		Manual	machine	walking		
1	Attach label per drawing	2 sec				
2	Group in designated lot size	3 sec				
3	Repeat process	2 sec				
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
<b>Total time</b>		7 sec				

QUALITY  
STANDARD FOR  
BANJO BODY

# Standardized Work Chart

<b>Division: Acoustic</b>		<b>Dept: 514,515</b>			<b>Zone: Green</b>	<b>Takt time: 20 sec</b>
<b>Operation: MB2003 Assembly station Assemble</b>					Prepared by: SY	<b>Cycle time: 16 sec</b>
Step #	Work Element Description	Processing time			Work Station	
		Manual	machine	walking		
1	Take 2 J tubes and 1 straight tube	1 sec				
2	Assemble 3 pieces into a U	2 sec				
3	Repeat 2 more times	6 sec				
4	Take 3 U's and 2 T's	4 sec				
5	Assemble as shown	2 sec				
6	Group in designated lot size	1 sec				
7	Repeat process					
8						
9						
10						
11						
12						
13						
14						
15						
<b>Total time</b>		16 sec			<b>Banjo body</b>	

# **SIMULATION (MI Banjo)**

- Visually see waste
- Impact of improvements on profitability

## Simulation

- **Build Michigan Banjos**
- **Goal: make the process better by eliminating waste**
- **2 to 3 Rounds**
  - **Performance Feedback (Financial Spreadsheet)**
  - **Discussion**

## Round 1 Rules

- **No talking**
- **Must work within your assigned space**
- **No modifications allowed unless instructed by facilitator**
- **Lot size = 5**
- **Number of team members = 5**
- **Conveyance = Push**
- **Quality and Work Standards = Standardized Work Chart**
- **Layout = Refer to next sheet**



# Round 1 Layout

3 - Label & Inspect

Customer

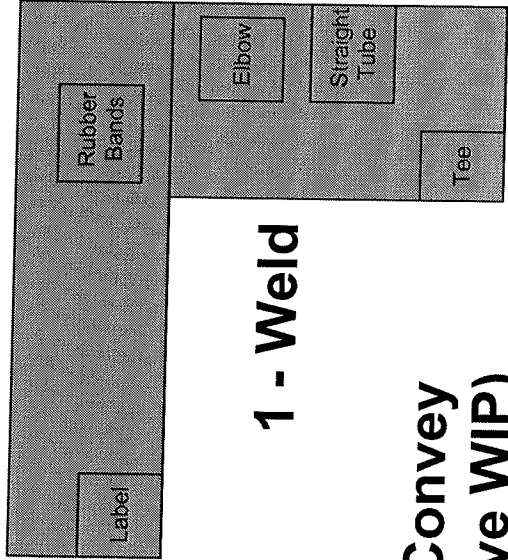
4 - String

1 - Weld

CFO

5 - Convey  
(move WIP)

2 - Assemble



# Round 1

- 6-8 minutes
- Net Revenue Analysis
- Discussion
  - What went wrong?
  - Were we producing quality product?
- Replenish materials (disassemble)

## Round 2 Rules

- **Changes (1 for each team)**
- **Lot Size =**
- **Number of team members =**
- **Communication encouraged (Inspection & Feedback)**
- **Conveyance =**
- **Layout =**

## Round 2

- 6-8 minutes
- Net Revenue Analysis
- Discussion
- Replenish materials (disassemble)

## Round 3

**Your team decides how to further improve the process an attain/maintain quality. Everything is fare game, as long as you produce to original customer**

- requirements.**
- Customer demand is 10.**
- Available time is 5.**

## Round 3

- 5 minutes
- Net Revenue Analysis
- Discussion
- Disassemble

# Lean Tools

Goals: Zero tolerance for waste  
Zero Defects

## QUICK SET UP (CHANGEOVER, SINGLE MINUTE EXCHANGE OF DIES-SMED)

### What it is:

A structured process that applies to any machine that has more than one job.

It attempts to reduce the time between the "last good piece" and the "first good piece" to a minimum

**Internal changeover time** begins when the current processing task is finished. It ends when the next processing task produces a defect-free product.

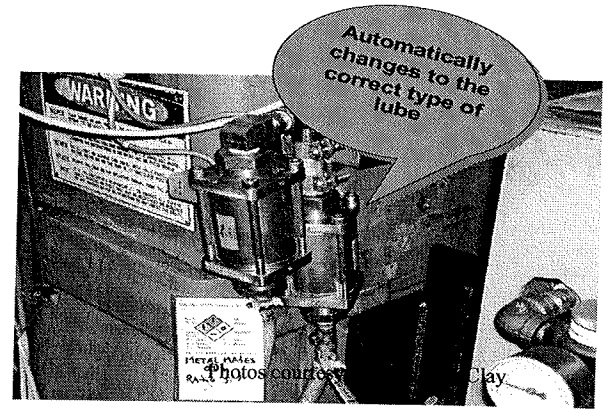
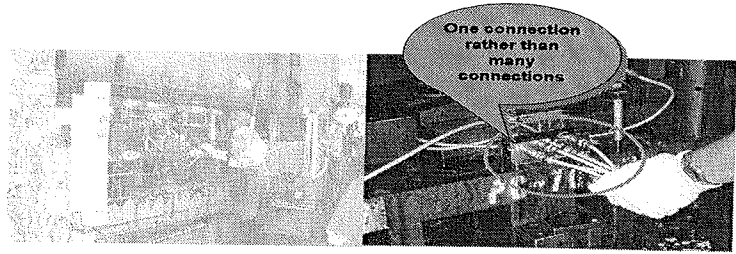
**External changeover time** is the time spent by the associate carrying out the set up procedures independent of the machine, while the machine is operating

### Goals:

1. To convert internal time to external time using CIA's and equipment improvements (*machines have more uptime and become more flexible*)
2. To combine, reduce or eliminate the labor required for external time (*set-up labor is reduced*)

### Why?

- ✓ Reduces waste and shortens lead times
- ✓ Improves manufacturing capacity, flexibility, and quality



- ### How to implement?
- Identify process with high improvement potential
  - Develop standard set up process to meet established goals
  - Define team and train each member in relationship to the standard process
  - Implement
  - Document and do follow up (show before/after improvement/measures)

### Who uses the tool?

Any employee involved in changing from one process to another

# Lean Tools

## ERROR PROOFING

(MISTAKE PROOFING,  
POKA-YOKE)

### What it is:

Removal of all potential causes of error either through design, process, or mistake proofing devices. Error proofing can be applied to machines, material or people. *Automotive customers expect error proof solutions in problem solving*

### (DETECTION)

**OK**-error is detected at a downstream operation after it is made, but defective product does not get to the customer

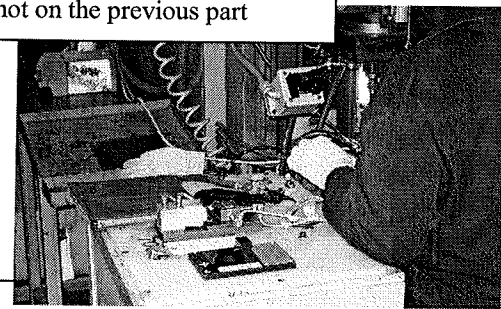
**GOOD**-error is detected in the same place it is made

### (PREVENTION)

**BETTER**-error is prevented in the same place it can be made

**BEST**-the design of the part or process does not allow errors to be made

**GOOD** : Operator can not weld the next part if the nut is not on the previous part



Photos courtesy of Pridgeon and Clay

### Why use it?

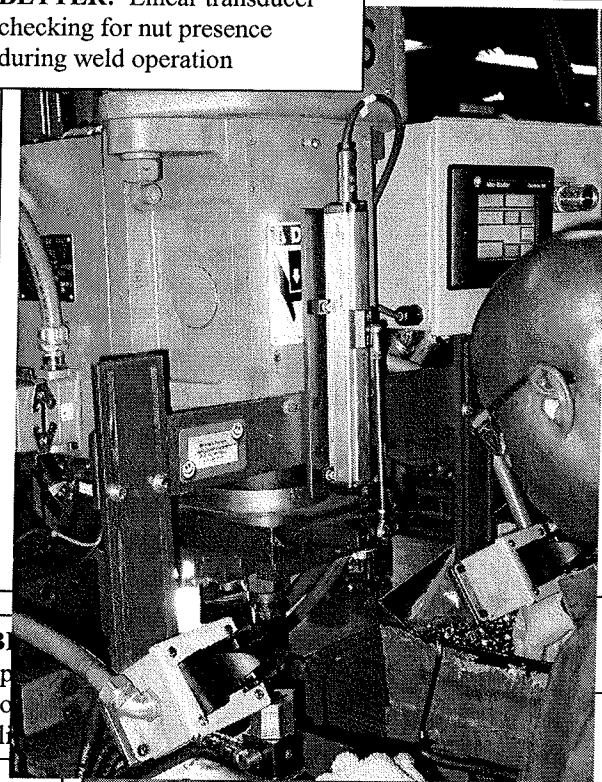
- Mistakes caught early cost less to fix
- No scrap, no rework
- Reduces rework
- Supports APQP

## Goals:

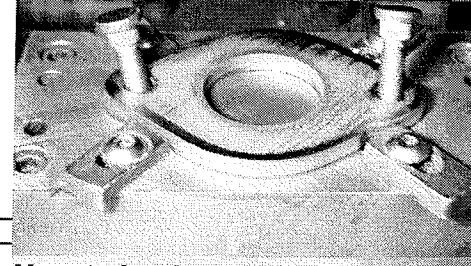
**Zero tolerance for waste**

**Zero Defects**

**BETTER:** Linear transducer checking for nut presence during weld operation



B  
up  
ho  
all



### How to implement:

- ✓ Get organizational commitment for *prevention* rather than *detection*
- ✓ Identify opportunity for error proofing solution
- ✓ Train as needed in technologies and methodologies
- ✓ Make fiscal decision to choose error proofing solution

### Who uses the tool?

- Design Engineers
- Quality Engineers
- Process Engineers
- Production Personnel



**OVERPRODUCTION**

Producing More or Earlier  
THAN THE CUSTOMER  
REQUESTS

**EXAMPLE:**

---

---

---

---

**IMPACT:**

---

---

---

---

---

**INVENTORY**

MORE PRODUCT/MATERIAL IS  
ON HAND THAN IS NECESSARY  
TO MEET THE CUSTOMERS'  
NEEDS

**EXAMPLE:**

---

---

---

---

**IMPACT:**

---

---

---

---

---

**MOTION**

ANY EXTRA MOVEMENT OF  
THE OPERATOR WHILE  
PERFORMING THE WORK  
SEQUENCE

**EXAMPLE:**

---

---

---

---

---

**IMPACT:**

---

---

---

---

---

**OVERPROCESSING**

DOING MORE TO THE  
PRODUCT THAN THE  
CUSTOMER REQUESTED

**EXAMPLE:**

---

---

---

---

**IMPACT:**

---

---

---

---

---

**TRANSPORTATION**

MOVING THE PRODUCT MORE THAN IS NECESSARY

**EXAMPLE:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**IMPACT:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**WAITING**

ANY TIME VALUE CANNOT BE ADDED BECAUSE OF A DELAY

**EXAMPLE:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**IMPACT:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CORRECTION**

ANYTHING THAT IS NOT 'DONE RIGHT THE FIRST TIME' (REWORK, INSPECTION, TOUCH-UP)

**EXAMPLE:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**IMPACT:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**KNOWLEDGE**

FAILURE TO CAPTURE AND USE INDIVIDUAL AND COLLECTIVE KNOWLEDGE AND EXPERIENCE OF OUR EMPLOYEES

**EXAMPLE:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**IMPACT:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Lean Tools

Goals: Zero tolerance for waste  
Zero Defects

*"All we are trying to do is shorten the lead time..."* Taiichi Ohno

## Overview of Lean Manufacturing

### Toyota Production System (TPS)

- Lean Mfg is modeled after Toyota Production System (TPS)
- Early 1960's, Taiichi Ohno pioneered TPS reflecting philosophies of waste elimination and time management
- Characterized by highly skilled "work cell" jobs and emphasis on quality and efficiency

### Three core concepts

1. Zero Tolerance For Waste
2. Stabilize the production environment
  - ? The highest quality product can only be achieved in a stable environment
  - ? Standardization, consistency and predictability and repeatability are the goals
3. Customer "Pull" / Just-In-Time (JIT)
  - Build only what the customer wants
  - Deliver a perfect part when it is expected

### Basically....

- ? Focus on the product and its value stream
- ? Assess activities as waste or adding value
- ? Enhance the value & eliminate the waste to optimize the process

### Two distinct manufacturing philosophies:

#### Mass production:

- ? Optimize process cycle time and push demand through the chain
- ? Maximize production lot size to increase utilization
- ? Avoid shortages by carrying inventory at all points
- ? Deploy containment nets to address quality failures

#### Lean manufacturing:

- ? Produce to customer requirement and pull demand through the chain
- ? Constantly reduce set up time to increase utilization
- ? Maintain minimum inventories at strategic buffer points to smooth production
- ? Ensure quality by increasing capability

### Lean Manufacturing Tools

- 5S
- Standardized Work
- Kanban
- Quick Changeover
- Poka yoke
- TPM
- Constraints management
- Kaizen
- Problem Solving

### 8 areas of waste

Overproduction	Inventory
Transportation	Waiting
Motion	Over processing
Correction	Not using employee's knowledge

# Lean Tools

Goals: **Zero tolerance for waste**  
**Zero Defects**

## PROBLEM SOLVING

**What it is:**  
Using a systematic (structured) problem solving method in order to improve the process

Plan-Do-Check-Act, 8-Step, or customized, documented plans to solve problems in teams

Six Sigma ( $6\sigma$ ) is a problem solving system that emphasizes analytical methods for decision making when solutions are not clear.

- Why use it?**
- ✓ It surfaces problems so they can be resolved
  - ✓ Leads to a more stable production environment and higher quality product
  - ✓ Allows employees to be involved in formal problem solving activities

- ### TEAM PROBLEM SOLVING MODEL
1. Identify the problem
  2. Form a team
  3. List possible causes and choose a 'root' cause
  4. List possible solutions and choose the 'best' solution
  5. Test the solution (*if it works, go on to the next step, if it does not work, return to step #4 and choose another solution. If no solution works, choose another 'root' cause and continue the process*)
  6. Implement the solution
  7. Do follow-up to verify that the problem does not re-occur

- How to implement:**
1. Develop a step-by-step method of problem solving in teams
  2. Train
  3. Set up problem solving teams when necessary
  4. Allow teams to follow the established process

**Who uses the tool?**  
Any employee who has an idea that might improve the process within the organization

# Resume Worksheet

Full Name \_\_\_\_\_

Email Address \_\_\_\_\_

Phone Number \_\_\_\_\_

Mailing Address \_\_\_\_\_  
\_\_\_\_\_

## **Objective:**

\_\_\_\_\_  
\_\_\_\_\_

## **Work Experience (Most Recent)**

Name of Company \_\_\_\_\_ City, State \_\_\_\_\_

Position \_\_\_\_\_

Start Date \_\_\_\_\_ End Date \_\_\_\_\_

### Responsibilities:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## **Work Experience #2**

Name of Company \_\_\_\_\_ City, State \_\_\_\_\_

Position \_\_\_\_\_

Start Date \_\_\_\_\_ End Date \_\_\_\_\_

### Responsibilities:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## **Work Experience #3**

Name of Company \_\_\_\_\_ City, State \_\_\_\_\_

Position \_\_\_\_\_

Start Date \_\_\_\_\_ End Date \_\_\_\_\_

The language you use in your résumé says a lot about what type of employee you are and your competency level. The following pages will help you choose words that are applicable and relevant to portray the best image of your abilities.

### Key Words/Action Words

Actively	Approve	Completed	Lecture
Established	Generate	Interpret	Reorganized
Evaluate	Program	Proficient	Accelerated
Participated	Solve	Successfully	Adapted
Schedule	Control	Demonstrate	Expanded
Coordinate	Improve	Maintain	Perform
Increased	Recommend	Revamped	Significantly
Proposed	Supervise	Responsible	Conceived
Strategy	Direct	Administer	Influence
Created	Manage	Expedite	Proved
Launched	Motivated	Plan	Structure
Reduced	Responsibilities	Simplicity	Delegate
Support	Revise	Conduct	Lead
Effect	Analyze	Implemented	Reinforced
Eliminate	Founded	Provide	Teach
Organized	Pinpointed	Streamline	
Originate	Set up	Develop	

### Self-Describing Words

Professional	Reliable	Self-reliant	Fair
Active	Alert	Broad-minded	Practical
Diplomatic	Economical	Enterprising	Will relocate
Loyal	Objective	Personable	Conscientious
Respective	Optimistic	Tactful	Extroverted
Analytical	Realistic	Creative	Positive
Attentive	Aggressive	Imaginative	Will travel
Determined	Discrete	Perceptive	Enthusiastic
Logical	Methodical	Systematic	Pleasant
Resourceful	Sense-of-humor	Constructive	Talented
Ambitious	Sincere	Forceful	Dependable
Efficient	Adaptable	Productive	Trustworthy
Energetic	Disciplined	Sophisticated	Ethical
Independent	Mature	Consistent	

### Keywords for Interpersonal Traits

Ability to delegate	Ability to implement	Ability to plan	Ability to train
Accurate	Adaptable	Aggressive	Analytical ability
Assertive	Communication skill	Competitive	Conceptual ability
Creative	Customer oriented	Detail minded	Empowering others
Ethical	Flexible	Follow instructions	Follow through
Follow up	High energy	Industrious	Innovated
Leadership	Multitasking	Open minded	Open communication
Oral communication	Organizational skills	Persuasive	Problem solving
Public speaking	Results oriented	Risk taking	Safety conscious
Self accountable	Self management	Sensitive	Setting priorities
Supportive	Takes initiative	Team building	Team player
Tenacious	Willing to travel		

# JOHN DOE

622 Godfrey SW, Grand Rapids MI |  
616-234- 3168 | davidlovell@grcc.edu

## SUMMARY

---

A driven, experienced college graduate looking for an opportunity to apply my education, experience, and creativity to improve the student experience at a secondary educational institution.

## EXPERIENCE

(Dec 2014-Current)

### **Job Developer |**

Grand Rapids Community College | *Grand Rapids, MI*

- Assisted graduating students in finding and securing long-term, meaningfully employment.
- Networked with community employers to identify workplace needs and assist in filling those needs with qualified candidates.

(Oct 2013-Oct 2014)

### **Retention Specialist |**

Goodwill Industries | *Grand Rapids, MI*

- Instructed employability-skills workshops to assist participants in establishing a career.
- Developed long-lasting relationships with participants to help identify and overcome barriers to sustaining employment

## EDUCATION

---

May, 2014

### **Bachelor's Degree of Business Administration |**

Ferris State University | *Big Rapids, MI*

May, 2012

### **Associate's Degree of Arts |**

Grand Rapids Community College | *Grand Rapids, MI*

**Reference Worksheet:**

**Reference Option #1:**

Name \_\_\_\_\_

Relationship \_\_\_\_\_

Phone # \_\_\_\_\_

Email \_\_\_\_\_

Permission?

Yes

**Reference Option #2:**

Name \_\_\_\_\_

Relationship \_\_\_\_\_

Phone # \_\_\_\_\_

Email \_\_\_\_\_

Permission?

Yes

**Reference Option #3:**

Name \_\_\_\_\_

Relationship \_\_\_\_\_

Phone # \_\_\_\_\_

Email \_\_\_\_\_

Permission?

Yes

*Backup Option #1:* \_\_\_\_\_

*Backup Option #2:* \_\_\_\_\_



March 31, 20XX

Mr. John M. Smith  
Senior Recruitment Consultant  
Company ABC  
55 ABC Avenue  
City ABC, State ABC 11111

Dear Mr. Smith:

Your advertisement for a software engineer in the July issue of Magazine ABC caught my attention. I was attracted to the ad by my strong interest in software design and Database.

I have worked with a CALMA system to develop VLSI circuits and I have substantial experience designing interactive CAD software. As a result of this experience, I can make a direct and immediate contribution to your organization. I have enclosed a copy of my resume, which details my qualifications and suggests how I might be of service to your organization.

I would like to meet with you to discuss your open position for a software engineer. If you wish to arrange an interview, please contact me at the above address or by telephone at (000) 555-1234.

Thank you for your consideration.

Sincerely yours,

John Doe

(Date)

(Company Name)

(Hiring Manager's Name)

(Address)

(City, State, Zip)

Dear (Hiring Manager's Name):

Thank you for allowing me to present myself as a candidate for the position of Mechanical Trades Instructor, a prospect about which I am very excited. Given my background, I can understand the need for an Instructor who maintains a working knowledge of the industry and can effectively transfer that knowledge to students through comprehensive instruction and hands on experience. What this means for you is that as Mechanical Trade Instructor I can bring the skill, insight, and expertise to motivate students in the classroom.

As a Mechanical Trades Instructor for the past six years I have led up to 5 classes per intake with 24 students per intake and 5 intakes a year covering topics such as Trade Calculations, Applied Physics, Hydronics Theory, Plumbing Theory and Gas Fitting Theory. My dedication to the industry partnered with my ability to mentor new instructors makes me an ideal candidate for the position.

I would welcome the opportunity to meet with you to further discuss how my strengths would fit into your institution. Thank you for your consideration. I look forward to hearing from you soon.

Sincerely,

Enclosure: Résumé

## Worksheet

Your name  
Your address  
Your city, state, zip  
Your phone number  
Your email address

Today's date

Manager's name and title  
Department's name  
Company's name  
Address  
City, state, zip

Re: (Job code, if listed in an ad or job posting)

Dear (Mr. or Ms.):

**Get the manager's attention**

---

---

**Rouse the manager's interest**

---

---

**Create a desire to meet you**

- ---
- ---
- ---

**Ask the manager to take action**

---

---

Sincerely,

**Your Signature**

Pat Perfect

# Employer Research Sheet

Company \_\_\_\_\_

Notes:

---

---

---

Interview Questions:

---

---

---

Company \_\_\_\_\_

Notes:

---

---

---

Interview Questions:

---

---

---

Company \_\_\_\_\_

Notes:

---

---

---

Interview Questions:

---

---

---

Company \_\_\_\_\_

Notes:

---

---

---

Interview Questions:

---

---

---

Company \_\_\_\_\_

Notes:

---

---

---

Interview Questions:

---

---

---



Subject Matter Expert (SME) Course Review Summary

College: Grand Rapids Community College

M-CAM Training Area:  CNC/Machining  Muri-Skilled/Mechanics  Production Operation  Welding/Fabrication

Degree Program Name: Pathways to Success in Manufacturing, Certified Production Technician (CPT)

Title of Course: Pathways to Success in Manufacturing, Certified Production Technician (CPT)

Subject Matter Expert (SME) Reviewer Information

Name: Jenny Reddes

Title: Human Resource Manager

Phone: 616-389-1246

Email: Jreddes@Custom-profile.com

Organization/Affiliation: Custom Profile

Attach Resume or provide credentials (showing years of experience and work experience that is relevant to course content):

Synopsis of Findings:

Overall, I feel the program is good for candidates looking to get into manufacturing. All of the skills learned are beneficial for their roles.

Reviewers Signature

J Reddes

Date:

3-9-17



**Michigan Coalition for Advanced Manufacturing  
Subject Matter Expert Course Review**

1. Course Overview and Objectives		Exceptional	Satisfactory	Ineffective
The goals and purpose of the course is clearly stated.		✓		
Prerequisites and/or any required competencies are clearly stated.			✓	
Learning objectives are specific and well-defined.		✓		
Learning objectives describe outcomes that are measurable.		✓		
Outcomes align to occupational focus (industry skills and standards).		✓		
Comments or recommendations: <i>The candidates have a basic understanding of what is needed in Mfg.</i>				
2. Material and Resources		Exceptional	Satisfactory	Ineffective
The instructional materials contribute to the achievement of the course learning objectives.		✓		
The materials and resources meet/reflect current industry practices and standards.				
The instructional materials provide options for a variety of learning styles.				
Resources and materials are cited appropriately. If applicable, license information is provided.		✓		
Comments or recommendations:				
3. Learning Activities		Exceptional	Satisfactory	Ineffective
Provide opportunities for interaction and active learning.		✓		
Help understand fundamental concepts, and build skills useful outside of the learning object.		✓		
Activities are linked to current industry practices and standards.		✓		
Comments or recommendations:				



## Michigan Coalition for Advanced Manufacturing Subject Matter Expert Course Review

4. Assessment Tools/Criteria for Evaluation		Exceptional	Satisfactory	Ineffective
The course evaluation criteria/course grading policy is stated clearly on syllabus.			✓	
Measure stated learning objectives and link to industry standards.			✓	
Align with course activities and resources.			✓	
Include specific criteria for evaluation of student work and participation.			✓	
Comments and recommendations:				
5. Equipment/Technology		Exceptional	Satisfactory	Ineffective
Meets industry standards and needs.		✓		
Supports the course learning objectives.		✓		
Provides students with easy access to the technologies required in the course/module.		✓		
Comments and recommendations:				

This workforce solution was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

The eight community colleges and MCAM is an equal opportunity employer/program provider. Auxiliary aids and services are available upon request to individuals with disabilities. TTY users please call 1-877-875-6464 or visit [www.michigan.gov/infor](http://www.michigan.gov/infor).

This work is licensed under a Creative Commons Attribution 4.0 International License.





Try Premium for Free



2nd

## Jenny Redes, SHRM-CP

HR Manager at Custom Profile

Junior Achievement USA • Grand Valley State University

Greater Grand Rapids, Michigan Area • 500+

Send InMail

Connect

In my time working in the field of HR, I have been able to learn all different facets of the business and how my roles impact each and everything we do as a company. I value my working relationships and thrive on making ... [See more](#)

### Highlights



#### 17 Mutual Connections

You and Jenny both know Bonnie Mroczek, Amy Pierce, and 15 others



#### 1 Mutual Group

You and Jenny are both in the Ferris State University Alumni group

### Jenny's Articles & Activity

1,339 followers

+ Follow

#### Careers

Jenny shared

Great opportunity with a growing company!

Apply today!

Jenny shared

#### Custom Profile is Hiring!

Jenny Redes, SHRM-CP on LinkedIn  
July 12, 2016

#### Christa's photo

Jenny liked

See 1 more article

See all activity

### Experience

#### Volunteer - JA Bowling for Financial Literacy Event

Junior Achievement USA  
2015 - Present • 2 yrs

<https://www.juniorachievement.org/web/ja-mgl/ja-bowling-for-financial-literacy>

See less

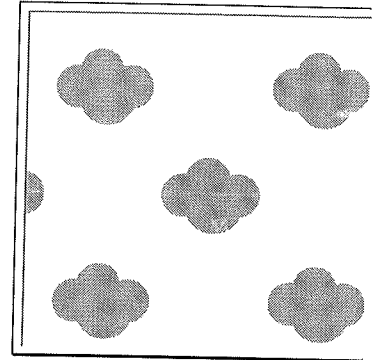
#### HR Manager

Custom Profile  
Jun 2000 - Present • 16 yrs 10 mos • Greater Grand Rapids, Michigan Area

### Contact and Personal Info

Jenny's Profile, Websites, Twitter, and Bi

Show more



### People Also Viewed



**Christa Bird** • 2nd  
Chief People Officer at Custom I



**Courtney Schievink** • 2nd  
HR Generalist at Custom Profile

**Sam Nicholas** • 3rd  
President at Custom Profile, Inc.

**Rachel Leos** • 3rd  
Plant Manager at Custom Profil

**Jim Gorant** • 2nd  
CFO at Custom Profile

**Kevin Richardson** • 3rd  
Plant Manager at Custom Profil

**Brian Hortlings** • 3rd  
IT/IS Manager at Custom Profile

**John Boeschstein** • 3rd  
Member of the Board at Childre  
Assessment Center

**Richard Sweers** • 3rd  
Strategic Buyer at Custom Profi

**Karie Droge, SHRM-SCP** • 2r  
Director of Human Resources





Try Premium for Free

### Volunteer

MISHRM - Michigan Council of SHRM  
2011 - Dec 2014 • 4 yrs • www.mishrm.org

See description

### Volunteer

AHRM - Association of Human Resource Management  
2005 - 2010 • 5 yrs • www.ahrm.net

See description

### Recruiter

Grand Rapids Building Services  
1995 - 2000 • 2 yrs

See description

### Education

#### Grand Valley State University

BA, Business Management with an emphasis in HR  
1995 - 1999

### Volunteer Experience

#### Catechist

Mary Queen Of Apostles Parish  
2007 • less than a year  
Children

### Featured Skills & Endorsements

Leadership • 80

Endorsed by Mike Kestly, who is highly skilled at this

Endorsed by Amy Pierce and 1 other mutual connection

New Hire Orientat... • 46

Endorsed by Valorie Dewey (mutual connection)

Endorsed by 10 of Jenny's colleagues at Custom Profile

Management • 45

Endorsed by Amy Pierce (mutual connection)

Endorsed by 9 of Jenny's colleagues at Custom Profile

View 36 more

### Recommendations

Received (2)

Given (3)

#### Kris Bainbridge, PHR, SHRM-CP

HR Administrator at Davis Dental Laboratory

April 8, 2016, Kris reported directly to Jenny

Jenny and I served together on AHRM's Board of Directors, where I reported to her when she was the President. Jenny is a good leader and is willing to try new ideas.

Jenny is a great resource in the HR field. Jenny handles things



She is always willing to contribute when questions come her way.

**Amy Pierce**

Career Exploration  
Coordinator at Kent ISD  
March 30, 2009, Jenny was a client of Amy's

Talk about someone who is exceptionally knowledgeable about human resources issues – Jenny is your person! Jenny stays on top of human resource and employment trends continuously. She is a wealth of information on these topics.

Jenny has helped me tremendously whenever I have had a need to seek information; she is very willing to provide recommendations of sources to speak with to achieve the knowledge I seek. Jenny has helped me become better through her willingness to share her knowledge with me.

Jenny always has a smile on her face, a great attitude and is utterly enjoyable to be around! Without hesitation, I recommend working with her in any capacity.

**Accomplishments**

**4 Certifications**

CPR/First Aid Instructor

[See more certifications](#) ▾

**1 Project**

ACT's Tomorrow's Workforce Now Initiative/WorkKeys Assessments

[See more](#)

**Following**

**Junior Achievement Alumni**

411 members

**Intern In Michigan - Connecting Michigan Employers to Educated Talent**

1,581 members

**DA Blodgett and St Johns Home**

38 members

**Mlive Media Group**

821 members

**Epilepsy Foundation**

4,335 followers

**Continuous Improvement, Six Sigma, & Lean Group**

159,180 members

[See more](#)



- [About](#)
- [Community Guidelines](#)
- [Privacy & Terms](#) ▾
- [Send feedback](#)



**Questions?**  
[Visit our Help Center.](#)



**Manage your account and privacy.**  
[Go to your Settings.](#)

Select Language

English (English)