## **Introduction to Manufacturing**

Spring 2025

## Mr. Hengen

Room 1 or 103

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## **Class Syllabus**

Google Classroom Code(s):

Per. 2) <u>ugxvbur6</u>	Per. 5) <u>qhvdsevr</u>	Per. 6) <u>pjo55v76</u>
Per. 10) <u>zla3csuz</u>	Per. 11) <u>g6ovwqhv</u>	

<u>Sept 1</u> <u>Sept 8</u> <u>Sept 15</u> <u>Sept 22</u> <u>Sept 29</u> <u>Oct 6</u> <u>Oct 20</u> <u>Oct 27</u> Nov 3 Nov 10 Nov 17 Nov 24 Dec 1 Dec 8 Dec 15

## **Power Essentials and Learning Targets:**

Date	Power Essential	Learning Target	In-Class	Assignments
Thursday August 14	Welc	ome!	- <u>Welcome</u>	<ul><li>Get to know you form</li><li>Safety Contract</li><li>Find Needed PPE</li><li>Lab Fee \$30.00</li></ul>

Friday August 15	Welcome!		- Welcome	- Get to know you form - Safety Contract - Find Needed PPE - Lab Fee \$30.00
Monday August 18	I will maintain a safe working environment.	I can apply knowledge of safety requirements of all of the machines and shop area.	- <u>Safety</u>	- Turn in Safety Contract - Find Needed PPE - Lab Fee \$30.00 - Review for Safety Test
Tuesday August 19	I will maintain a safe working environment.	I can apply knowledge of safety requirements of all of the machines and shop area.	- <u>Safety</u>	- Turn in Safety Contract - Find Needed PPE - Lab Fee \$3000 - Review for Safety Test
Wednesday August 20	I will maintain a safe working environment.	I can apply knowledge of safety requirements of all of the machines and shop area.	- <u>Safety Test</u> Safety Contracts Due	- Review for Safety Test if you did not pass it.
Thursday August 21	I will maintain a safe working environment.	I can apply knowledge of safety requirements of all of the machines and shop area.	- <u>Safety Test</u> Safety Contracts Due	- Review for Safety Test if you did not pass it.
Friday August 22	I can identify the basic components and tools used for my rotation.	See linked powerpoint for individual rotation information.	- Rotation Day 1	Review Basic Components and Tools for your rotation: - Lathe - MIG / OA - Stick
Monday August 25	I can identify the basic components and tools used for my rotation.	See linked powerpoint for individual rotation information.	- Rotation Day 1	Review Basic Components and Tools for your rotation: - <u>Lathe</u> - <u>MIG / OA</u> - <u>Stick</u>

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Tuesday August 26	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 2	Review measuring tools for your rotation: - Lathe = dial calipers, micrometers - Welding = Tape measure
Wednesday August 27	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 2	Review measuring tools for your rotation: - Lathe = dial calipers, micrometers - Welding rotations = Tape measure
Thursday August 28	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 3	
Friday August 29	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 3	
Monday September 1	No School - Labor Day			
•	No School - Labor Day  I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 4	
September 1 Tuesday	I will be able to perform the basic functions of my rotation's equipment to produce a quality		- Rotation Day 4 - Rotation Day 4	

Friday September 5	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 5
Monday September 8	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 6
Tuesday September 9	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 6
Wednesday September 10	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 7
Thursday September 11	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 7
Friday September 12	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 8
Monday September 15	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 8
Tuesday September 16	I will be able to perform the basic functions of my rotation's	See linked powerpoint for individual rotation information.	- Rotation Day 9

	equipment to produce a quality product.			
Wednesday September 17	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 9	
Thursday September 18	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 10	
Friday September 19	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 10	
Monday September 22	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 11	Review for end of rotation quiz! - Lathe - MIG / OA - Stick
Tuesday September 23	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 11`	Review for end of rotation quiz! - Lathe - MIG / OA - Stick
Wednesday September 24	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 12  End of rotation Quiz  (- Rotation Day 1)	Request for T3 to finish up any missing work from your rotation.  Review Basic Components and Tools for your new rotation: - Lathe

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Thursday September 25	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 12  End of rotation Quiz  (- Rotation Day 1)	- MIG / OA - Stick  Request for T3 to finish up any missing work from your rotation.  Review Basic Components and Tools for your new rotation: - Lathe - MIG / OA - Stick
Friday September 26	No School - Professional Develo	pment Day		
Monday September 29	I can identify the basic components and tools used for my rotation.	See linked powerpoint for individual rotation information.	- Rotation Day 1	Review Basic Components and Tools for your rotation: - <u>Lathe</u> - <u>MIG / OA</u> - <u>Stick</u>
Tuesday September 30	I can identify the basic components and tools used for my rotation.	See linked powerpoint for individual rotation information.	- Rotation Day 1	Review Basic Components and Tools for your rotation: - <u>Lathe</u> - <u>MIG / OA</u> - <u>Stick</u>
Wednesday October 1	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 2	Review measuring tools for your rotation: - Lathe = dial calipers, micrometers - Welding = Tape measure
Thursday October 2	I will be able to perform the basic functions of my rotation's equipment to produce a quality	See linked powerpoint for individual rotation information.	- Rotation Day 2	Review measuring tools for your rotation: - Lathe = dial calipers, micrometers

Date	<b>Power Essential</b>	<b>Learning Target</b>	In-Class Activities	Assignments	<b>Activities for Success</b>
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	product.			- Welding rotations = Tape measure
Friday October 3	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 3	
Monday October 6	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 3	
Tuesday October 7	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 4	
Wednesday October 8	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 4	
Thursday October 9	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 5	
Friday October 10	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 5	
Monday October 13	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 6	
Tuesday	Pre-ACT Testing Day			

October 14				
Wednesday October 15	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 6	
Thursday October 16	No School - Teacher Work Day			
Friday October 17	No School - PTC Payback Day			
Monday October 20	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 7	
Tuesday October 21	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 7	
Wednesday October 22	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 8	
Thursday October 23	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 8	
Friday October 24	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 9	

Date	<b>Power Essential</b>	<b>Learning Target</b>	In-Class Activities	Assignments	<b>Activities for Success</b>

Monday October 27	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 9	
Tuesday October 28	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 10	
Wednesday October 29	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 10	
Thursday October 30	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 11	Review for end of rotation quiz! - Lathe - MIG / OA - Stick
Friday October 31	No School - Teacher Work Day			
Monday November 3	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 11	Review for end of rotation quiz! - Lathe - MIG / OA - Stick
Tuesday November 4	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 12  End of rotation Quiz  (- Rotation Day 1)	Request for T3 to finish up any missing work from your rotation.  Review Basic Components and Tools for your new rotation: - Lathe

				- MIG / OA - Stick
Wednesday November 5	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 12  End of rotation Quiz  (- Rotation Day 1)	Request for T3 to finish up any missing work from your rotation.  Review Basic Components and Tools for your new rotation:  - Lathe  - MIG / OA  - Stick
Thursday November 6	I can identify the basic components and tools used for my rotation.	See linked powerpoint for individual rotation information.	- Rotation Day 1	Review Basic Components and Tools for your rotation:  - Lathe  - MIG / OA  - Stick
Friday November 7	I can identify the basic components and tools used for my rotation.	See linked powerpoint for individual rotation information.	- Rotation Day 1	Review Basic Components and Tools for your rotation: - Lathe - MIG / OA - Stick
Monday November 10	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 2	Review measuring tools for your rotation: - Lathe = dial calipers, micrometers - Welding = Tape measure
Tuesday November 11	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 2	Review measuring tools for your rotation: - Lathe = dial calipers, micrometers - Welding rotations = Tape measure
Wednesday	I will be able to perform the	See linked powerpoint for	- Rotation Day 3	

November 12	basic functions of my rotation's equipment to produce a quality product.	individual rotation information.		
Thursday November 13	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 3	
Friday November 14	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 4	
Monday November 17	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 4	
Tuesday November 18	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 5	
Wednesday November 19	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 5	
Thursday November 20	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 6	
Friday November 21	I will be able to perform the basic functions of my rotation's equipment to produce a quality	See linked powerpoint for individual rotation information.	- Rotation Day 6	

	product.				
Monday November 24	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 7		
Tuesday November 25	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 7		
Wednesday November 26	No School - Thanksgiving Break				
Thursday November 27	No School - Thanksgiving Break				
Friday November 28	No School - Thanksgiving Break				
Monday December 1	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 8		
Tuesday December 2	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 8		
Wednesday December 3	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 9		
Thursday December 4	I will be able to perform the basic functions of my rotation's	See linked powerpoint for individual rotation information.	- Rotation Day 9		

	equipment to produce a quality product.			
Friday December 5	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 10	
Monday December 8	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 10	
Tuesday December 9	I will be able to perform the basic functions of my rotation's equipment to produce a quality product.	See linked powerpoint for individual rotation information.	- Rotation Day 11	Review for end of rotation quiz! - Lathe - MIG / OA - Stick
Wednesday	I will be able to perform the	See linked powerpoint for	- Rotation Day 11	Review for end of rotation
December 10	basic functions of my rotation's equipment to produce a quality product.	individual rotation information.		quiz! - <u>Lathe</u> - <u>MIG / OA</u> - <u>Stick</u>
Thursday December 11	equipment to produce a quality	individual rotation information.  See linked powerpoint for individual rotation information.	- Rotation Day 12  End of rotation Quiz  (- Rotation Day 1)	- <u>Lathe</u> - <u>MIG / OA</u>

	equipment to produce a quality product.			Review Basic Components and Tools for your new rotation: - Lathe - MIG / OA - Stick Review for Final
Monday December 15	Catch up on missing work / Review for Final / Shop Clean up			
Tuesday December 16	Review for Final			
Wednesday December 17	Final Exams -			
Thursday December 18	Final Exams -			
Friday December 19	Final Exams -			

Assignments

**Activities for Success** 

**In-Class Activities** 

Power Essential Learning Target

Date