# **Electromechanical/Mechatronics**



Youth Apprenticeship

## **ELECTROMECHANICAL/MECHATRONICS**

Electromechanical/Mechatronics youth apprentices gain skills related to operating, testing, maintaining, or adjusting unmanned, automated, servomechanical, or electromechanical equipment. Apprentices must adhere to industry safety and security standards.

Length of Apprenticeship: One year

#### REQUIRED COMPETENCIES

Youth apprentices must become proficient in both general employability and occupation-specific competencies. All of these, and examples of how each can be demonstrated, are found in the following pages. A total of 15 occupational competencies must be learned for this occupation. All 7 Manufacturing Fundamentals competencies with no substitutions, and 8 Electromechanical / Mechatronics competencies. Employers may substitute out two of the Electromechanical/Mechatronics competencies and should write in the competencies they are adding. Where necessary, skills can be simulated. Youth apprentices must be evaluated on these competencies at least two times each year of their apprenticeship.

Note: Students who completed one year of Electromechanical/Mechatronics or a previous Manufacturing YA program do not need to repeat the Manufacturing Fundamentals Competencies.

Manufacturing Fundamentals Competencies	Electromechanical/Mechatronics Competencies
<ol> <li>Focus on customer needs</li> <li>Use various instruments</li> <li>Operate tools and equipment safely</li> <li>Practice quality assurance principles</li> <li>Follow personal safety requirements</li> <li>Maintain a safe work environment</li> <li>Demonstrate professional role to be used</li> </ol>	<ol> <li>Use test instruments</li> <li>Read blueprints and schematics</li> <li>Install electrical and electronic parts</li> <li>Use hand tools</li> <li>Install mechanical equipment</li> <li>Troubleshoot electronic systems</li> <li>Use precision measuring instruments</li> <li>Procure parts</li> </ol>
in an emergency	

#### REGISTERED APPRENTICESHIP BRIDGING OPPORTUNITIES

Some of the related instruction courses can bridge into the following registered apprenticeship:

- Electrical and Instrumentation (E&I) Technician
- Mechatronics

#### POST-SECONDARY PATHWAY OPPORTUNITIES

There are several post-secondary pathway opportunities in this area. Following is partial list.

- Mechatronics Basics Technical Diploma
- Electromechanical Maintenance Technician Technical Diploma



# **ELECTROMECHANICAL/MECHATRONICS**

Youth Apprenticeship

## ON-THE-JOB LEARNING PERFORMANCE STANDARDS GUIDE

#### YOUTH APPRENTICE INFORMATION

TOOTH APPRENTICE INFORMATION	
Youth Apprentice Name	
YA Coordinator	
YA Consortium	
School District	
SIGNATURES	
The On-the-Job Learning Performance Standards Gu	ide includes a list of competencies youth
apprentices learn through mentoring and training at	the worksite.
Instructions for the Worksite Employers/Mentors ar	nd School-Base or YA coordinators.
This document should be reviewed with the employ	er / mentor, school-based or YA coordinator on a
regular basis with the youth apprentice to record pr	ogress and plan future steps to ensure completion
of the required competencies. Mentors, school-base	ed / YA coordinator, and the apprentice sign below.
Employe	r/Mentor
1 <sup>st</sup> Evaluation (Required)	2 <sup>nd</sup> Evaluation (Required)
Employer/Mentor Signature	Employer/Mentor Signature
Employer/Mentor	Employer/Mentor
Business/Company	Business/Company
Date Signed	Date Signed
3 <sup>rd</sup> Evaluation (Optional)	4th Evaluation (Optional)
Employer/Mentor Signature	Employer/Mentor Signature
Employer/Mentor	Employer/Mentor
Business/Company	Business/Company
Date Signed	Date Signed

## **School-Based and/or YA Coordinator**

#### 1<sup>st</sup> Evaluation (Required)

## 2<sup>nd</sup> Evaluation (Required)

School-Based and/or YA Coordinator Signature	School-Based and/or YA Coordinator Signature
School-Based and/or YA Coordinator	School-Based and/or YA Coordinator
School District or Organization	School District or Organization
Date Signed	Date Signed

## 3<sup>rd</sup> Evaluation (Optional)

#### 4th Evaluation (Optional)

School-Based and/or YA Coordinator Signature	School-Based and/or YA Coordinator Signature
School-Based and/or YA Coordinator	School-Based and/or YA Coordinator
School District or Organization	School District or Organization
Date Signed	Date Signed

## **Youth Apprentice**

#### 1<sup>st</sup> Evaluation (Required)

## 2<sup>nd</sup> Evaluation (Required)

Youth Apprentice Signature	Youth Apprentice Signature
Youth Apprentice	Youth Apprentice
School District / High School	School District / High School
Date Signed	Date Signed

## 3<sup>rd</sup> Evaluation (Optional)

#### 4th Evaluation (Optional)

Youth Apprentice Signature	Youth Apprentice Signature
Youth Apprentice	Youth Apprentice
School District / High School	School District / High School
Date Signed	Date Signed

## EMPLOYABILITY SKILLS (TO BE COMPLETED BY YA EMPLOYER/MENTOR)

All youth apprentices must demonstrate the key employability skills listed below in order to complete the YA program. They do so by earning at least a "Meets Expectation" rating in each. **At least two evaluations are required each year of a youth apprenticeship.** More columns are included below for those who choose to conduct more frequent reviews.

1	Working to Meet Expectations: Needs improvement; requires much assistance and supervision;
	rarely displays this behavior
2	Meets Expectations: Meets entry-level criteria; requires some supervision; often displays this
	behavior
3	Exceeds Expectations: Exceeds entry-level criteria; requires minimal supervision; consistently
	displays this behavior

Employability Skills Rating					
Competency	and Rating Criteria	Initial	Mid Year 1	Mid Year 2	Final
<ul> <li>Responds to others in an appropriate to the service of th</li></ul>	the employee might exhibit include: ct and in a non-judgmental manner oriate and non-offensive manner omplish tasks or goals les to improve relations with others craits such as compassion, listening, coaching,	☐ 1 ☐ 2 ☐ 3			
<ul> <li>Adjusts the communication appropriate situation to maximize impact</li> </ul>	the employee might exhibit include roach for the target audience, purpose, and in a logical and helpful manner e listening practice	☐ 1 ☐ 2 ☐ 3	□1 □2 □3	☐ 1 ☐ 2 ☐ 3	☐ 1 ☐ 2 ☐ 3
<ul> <li>Works effectively in teams with sex, race, ethnicity, nationality, s</li> <li>Shares responsibility for collabor</li> <li>Uses the problem-solving process constructive manner to achieve</li> <li>Avoids contributing to an unprocess</li> </ul>	ss to work through differences of opinion in a a reasonable compromise	☐ 1 ☐ 2 ☐ 3	☐ 1 ☐ 2 ☐ 3	☐ 1 ☐ 2 ☐ 3	1   2   3

	Employability Skills		Rati	ing	
	Competency and Rating Criteria	Initial	Mid	Mid	Final
4.	<ul> <li>Maintains composure under pressure</li> <li>Examples of qualities and habits that the employee might exhibit include</li> <li>Uses critical thinking to determine the best options or outcomes when faced with a challenging situation</li> <li>Carries out assigned duties while under pressure</li> <li>Acts in a respectful, professional, and non-offensive manner while under pressure</li> <li>Applies stress management techniques to cope under pressure</li> </ul>	☐ 1 ☐ 2 ☐ 3	Year 1	Year 2  1 2 3	□ 1 □ 2 □ 3
5.	Demonstrates integrity  Examples of qualities and habits that the employee might exhibit include  Carries out responsibilities in an ethical, legal and confidential manner  Responds to situations in a timely manner  Takes personal responsibility to correct problems  Models behaviors that demonstrate self-discipline, reliability, and dependability	☐ 1 ☐ 2 ☐ 3			
6.	Performs quality work  Examples of qualities and habits that the employee might exhibit include  Carries out written and verbal directions accurately  Completes work efficiently and effectively  Performs calculations accurately  Conserves resources, supplies, and materials to minimize costs and environmental impact  Uses equipment, technology, and work strategies to improve workflow  Applies problem-solving strategies to improve productivity  Adheres to worksite regulations and practices  Maintains an organized work area	☐ 1 ☐ 2 ☐ 3	☐ 1 ☐ 2 ☐ 3	□ 1 □ 2 □ 3	□ 1 □ 2 □ 3
7.	<ul> <li>Provides quality goods or services (internal and external)</li> <li>Examples of qualities and habits that the employee might exhibit include</li> <li>Shows support for the organizational goals and principles by own personal actions</li> <li>Displays a respectful and professional image to customers</li> <li>Displays an enthusiastic attitude and desire to take care of customer needs</li> <li>Seeks out ways to increase customer satisfaction</li> <li>Produces goods to workplace specifications</li> </ul>	☐ 1 ☐ 2 ☐ 3	☐ 1 ☐ 2 ☐ 3	□1 □2 □3	□1 □2 □3
8.	<ul> <li>Shows initiative and self-direction</li> <li>Examples of qualities and habits that the employee might exhibit include</li> <li>Prioritizes and carries out responsibilities without being told</li> <li>Responds with enthusiasm and flexibility to handle tasks that need immediate attention</li> <li>Reflects on any unsatisfactory outcome as an opportunity to learn</li> <li>Improves personal performance by doing something different or differently</li> <li>Analyzes how own actions impact the overall organization</li> <li>Supports own action with sound reasoning and principles</li> <li>Balances personal activities to minimize interference with work responsibilities</li> </ul>	☐ 1 ☐ 2 ☐ 3			

Employability Skills		Rati	ing	
Competency and Rating Criteria	Initial	Mid	Mid	Final
Competency and Nating Criteria	IIIILIAI	Year 1	Year 2	ГШа
<ul> <li>9. Adapts to change Examples of qualities and habits that the employee might exhibit include Shows flexibility and willingness to learn new skills for various job roles <ul> <li>Uses problem-solving and critical-thinking skills to cope with changing circumstances</li> <li>Modifies own work behavior based on feedback, unsatisfactory outcomes, efficiency, and effectiveness</li> <li>Displays a "can do" attitude</li> </ul> </li></ul>	☐ 1	☐ 1	☐ 1	☐ 1
	☐ 2	☐ 2	☐ 2	☐ 2
	☐ 3	☐ 3	☐ 3	☐ 3
10. Demonstrates safety and security regulations and practices	1	□ 1	1	1
<ul> <li>Examples of qualities and habits that the employee might exhibit include</li> <li>Follows personal safety requirements</li> <li>Maintains a safe work environment</li> <li>Demonstrates professional role in an emergency</li> <li>Follows security procedures</li> <li>Maintains confidentiality</li> </ul>	☐ 2	☐ 2	☐ 2	☐ 2
	☐ 3	☐ 3	☐ 3	☐ 3
<ul> <li>11. Applies job-related technology, information, and media Examples of qualities and habits that the employee might exhibit include <ul> <li>Applies technology effectively in the workplace</li> <li>Assesses and evaluates information on the job</li> <li>Assesses training manuals, website, and other media related to the job</li> </ul> </li> </ul>	☐ 1	☐ 1	☐ 1	☐ 1
	☐ 2	☐ 2	☐ 2	☐ 2
	☐ 3	☐ 3	☐ 3	☐ 3
<ul> <li>12. Fulfills training or certification requirements for employment  Examples of this requirement may include</li> <li>Participation in required career-related training and/or educational programs</li> <li>Passing certification tests to qualify for licensure and/or certification</li> <li>Participation in company training or orientation</li> </ul>	☐ 1	☐ 1	☐ 1	☐ 1
	☐ 2	☐ 2	☐ 2	☐ 2
	☐ 3	☐ 3	☐ 3	☐ 3
<ul> <li>13. Sets personal goals for improvement     Examples of this requirement may include</li> <li>Setting goals that are specific and measurable</li> <li>Setting work-related goals that align with the organization's mission</li> <li>Identifying strategies to reach goals</li> <li>Reflecting on goal progress to regularly evaluate and modify goals</li> </ul>	□ 1	□ 1	□ 1	□1
	□ 2	□ 2	□ 2	□2
	□ 3	□ 3	□ 3	□3

#### COMPETENCIES (TO BE COMPLETED BY YA EMPLOYER/MENTOR)

Youth apprentices must earn a rating of at least "MEETS EXPECTATIONS" in each competency by the conclusion of the apprenticeship. A total of 15 competencies, 13 must be from the list below. All 7 Manufacturing Fundamentals competencies with no substitutions, plus 6 Electromechanical /Mechatronic competencies. Employers may substitute two Electromechanical / Mechatronic competencies with other occupationally appropriate skills. Those skills should be added to the competency list for assessment. Where necessary, skills can be simulated. At least two evaluations are required each year of a youth apprenticeship. More columns are included below for those who choose to conduct more frequent reviews.

Note: Students who completed a previous Manufacturing YA program do not need to repeat the Manufacturing Fundamentals Competencies.

1	Working to Meet Expectations: Needs improvement; requires much assistance and supervision;
	rarely displays this behavior
2	Meets Expectations: Meets entry-level criteria; requires some supervision; often displays this
	behavior
3	Exceeds Expectations: Exceeds entry-level criteria; requires minimal supervision; consistently
	displays this behavior

Manufacturing Fundamentals Occupational Competencies		Rati	ing		
Competency and Rating Criteria		Evaluation Minimum Rating of 2 EACH Check Rating			
	Initial	Mid Year 1	Mid Year 2	Final	
<ul> <li>Focus on customer needs</li> <li>identify internal and external customers impacted by the production process</li> <li>satisfy internal and external customer's expectations</li> <li>collaborate with team</li> <li>assist work site professional to keep internal and/or external customers informed of project progress and decisions that may affect them</li> <li>define the impact of the Voice of the Customer</li> <li>determine the impact of your work to the internal and external customer</li> </ul>	□ 1 □ 2 □ 3	□ 1 □ 2 □ 3	□ 1 □ 2 □ 3	□1 □2 □3	

	Manufacturing Fundamentals Occupational Competencies		Rat	ing	
		Evaluation  Minimum Rating of 2 EACH			
	Competency and Rating Criteria	Minii	mum Rat Check I		ACH
	Competency and Nating Criteria	Mid		Mid	
		Initial	Year 1	Year 2	Final
2.	Use various instruments	<b>1</b>	□ 1	□ 1	□ 1
	<ul> <li>consider the degree of precision required by the part feature</li> </ul>	□ 2	□ 2	□ 2	□ 2
	choose correct measuring instrument for task	□ 3	□ 3	□ 3	□ 3
	verify equipment is available for use and in working order				
	verify equipment preventative maintenance and/or calibration     impost to all and work area for acfety considerations.				
	<ul><li>inspect tools and work area for safety considerations</li><li>clean and adjust measuring instrument prior to use</li></ul>				
	<ul> <li>use gauges, calipers, and micrometer instruments</li> </ul>				
	<ul> <li>use semi-precision and precision layout tools</li> </ul>				
	<ul> <li>use digital gauges, checking fixtures</li> </ul>				
	<ul> <li>use digital scales, thermometers</li> </ul>				
	confirm measurement accuracy				
	record measurement correctly including unit of measurement at proper				
	interval				
	<ul> <li>calibrate, clean, and store measuring instruments properly</li> </ul>				
	<ul> <li>convert standard to metric – metric to standard measurement units</li> </ul>				
3.	Operate tools and equipment safely	<b>□</b> 1	<b>□</b> 1	<b>□</b> 1	<b>□1</b>
	<ul> <li>operate only tool/equipment that he/she is trained on</li> </ul>	☐ <b>2</b>		☐ <del>_</del>	☐ <b>2</b>
	<ul> <li>choose correct tool/equipment for the task</li> </ul>	□ <del>-</del>		☐ ☐ 3	□ <del>-</del>
	<ul> <li>follow tool check list</li> </ul>				
	<ul> <li>verify tool/equipment is available for use and in working order</li> </ul>				
	<ul> <li>verify tool/equipment is current for preventative maintenance and/or calibration</li> </ul>				
	<ul> <li>wear appropriate personal protective equipment (PPE)</li> </ul>				
	inspect tool/equipment and work area for safety considerations				
	prepare tool/equipment for safe operation				
	operate tool/equipment safely with guarding devices				
	monitor tool/equipment for safe operation while operating     compare tool/equipment performance regularly to entirel equipment.				
	<ul> <li>compare tool/equipment performance regularly to optimal equipment operations</li> </ul>				
	<ul> <li>follow facility procedures for clean-up and shut down after use</li> </ul>				
	<ul> <li>perform required preventative maintenance procedures</li> </ul>				
	report abnormal tool/equipment conditions				
	<ul> <li>properly shuts down and labels any tool/equipment that is not</li> </ul>				
	operating as expected				
	<ul> <li>follow Lock Out/Tag Out procedures as applicable</li> </ul>				
	document use and maintenance				
Ь		l	1	1	1

	Manufacturing Fundamentals Occupational Competencies		Rat	ing	
		Evaluation  Minimum Rating of 2 EACH  Check Rating			
					ACH
	Competency and Rating Criteria				I
		Initial	Mid	Mid	Final
1	Practice quality assurance principles		Year 1	Year 2	
	<ul> <li>inspect materials/piece/product at all stages of production</li> <li>identify quality or condition of materials/piece/product</li> </ul>	☐ 1 ☐ 2 ☐ 3	☐ 1 ☐ 2 ☐ 3	☐ 1 ☐ 2 ☐ 3	☐1 ☐2 ☐3
	<ul> <li>monitor materials, processes, equipment, tools, and products throughout the production process</li> </ul>				
	<ul> <li>inspect final product/piece to ensure it meets specifications</li> <li>identify and segregate materials and/or product that do not meet specification</li> </ul>				
	<ul> <li>communicate with work site professional if materials/product do not meet requirements</li> </ul>				
	document all quality checks				
	<ul> <li>participate in root-cause analysis of process/product</li> </ul>				
	take ownership of work				
	<ul> <li>collaborate with work site professional on corrective action</li> </ul>				
5.	Follow personal safety requirements (safety)	<b>□</b> 1	□ 1	□ 1	□ 1
	participate in required safety training	<b>□</b> 2	□2	□2	□2
	<ul> <li>follow all worksite guidelines for personal safety</li> </ul>	 3	 □3	 □3	 
	<ul> <li>apply principles of proper body mechanics</li> </ul>				
	<ul> <li>report exposures, injuries, near misses, or accidents, personal or to others immediately</li> </ul>				
	locate key information on material safety data sheets (MSDS)				
	handle and dispose of any hazardous materials appropriately				
	operate equipment that he/she is trained on				
	adhere to equipment safety standards				
	visually inspect equipment before operation				
	wear required personal protective equipment (PPE) at all times				
	<ul> <li>follow company emergency action plan</li> <li>identify hazardous conditions and restricted areas in the workplace</li> </ul>				
	avoid pinch points				
	be aware of surroundings				
	se aware or surroundings				

Manufacturing Fundamentals Occupational Competencies	Rating					
	Evaluation					
	Minimum Rating of 2 EACH			ACH		
Competency and Rating Criteria	Check Rating					
	1	Mid	Mid	<b></b>		
	Initial	Year 1	Year 2	Final		
6. Maintain a safe work environment (safety)	<u> </u>	<b>□</b> 1	<b>□</b> 1	<b>1</b>		
<ul> <li>comply with posted safety warnings and symbols</li> </ul>	 2	 2	 2			
<ul> <li>identify unsafe conditions and/or work habits</li> </ul>		□- □3	□-	□-		
report unsafe conditions and/or work habits	3	ა	,	3		
<ul> <li>help maintain a clean and safe working environment free of debris and obstacles</li> </ul>				ı		
maintain clean, organized work area				ı		
use hazardous materials according to company procedure				ı		
<ul> <li>report any indications of insects or pests, if necessary</li> </ul>				ı		
<ul> <li>follow appropriate Lock out – tag out procedures</li> </ul>				ı		
adhere to Occupational Safety and Health Administration (OSHA) Safety				ı		
guidelines				İ		
<ul> <li>follow rules for operating equipment (Powered Industrial Vehicle PIV)</li> </ul>				İ		
identify applicable Emergency Stops				ı		
7. Demonstrate professional role to be used in an emergency (safety)	<b>□1</b>	<b>□</b> 1	<b>□</b> 1	<b>□</b> 1		
<ul> <li>participate in emergency safety simulations and drills</li> </ul>	□ - □ 2	□ - □ 2	□ - □ 2	□-		
<ul> <li>describe company's policy and procedures for work site incidents,</li> </ul>	□ 2	□ ²	□2			
accidents, electrical, fire, tornado, bomb threats, robbery, hostage	<u></u> □ 3	3	╷└┘╸│	3		
situations, and other emergency situations				ı		
<ul> <li>identify the closest fire alarms and emergency exits</li> </ul>				ı		
<ul> <li>identify the fire extinguishers</li> </ul>				İ		
<ul> <li>identify appropriate alarms and procedures for using alarms</li> </ul>				İ		
<ul> <li>contact emergency personnel in the event of an emergency</li> </ul>				ı		
<ul> <li>contribute to emergency incident documentation</li> </ul>				ı		
- contribute to emergency melacite accumentation						
Competency Substitute (if you replaced a competency above, note the	□ 1	□ 1	□ 1	□ 1		
competency and rating)	<b>2</b>	□ 2	□ 2	□ 2		
	<b>3</b>	☐ 3	☐ 3	☐ 3		
				ı		
				ı		
				İ		
Comments:						
Comments.						

## **Electromechanical/Mechatronic (TO BE COMPLETED BY YA EMPLOYER/MENTOR)**

	Occupational Competencies	Rating				
		Evaluation				
		Minir	num Rati	ng of 2 E	ACH	
	Competency and Rating Criteria		Check F	Rating		
		1!4!	Mid	Mid	Fi	
		Initial	Year 1	Year 2	Final	
1.	Use test instruments	<b>□</b> 1	<b>□</b> 1	<b>□</b> 1	<b>□1</b>	
	<ul> <li>wear proper personal protective equipment (PPE)</li> </ul>		 2	2	2	
	adhere to arc flash safety					
	operate multimeters	<u></u> 3		∐ 3	<b>□</b> 3	
	operate micrometers					
	<ul> <li>use rules, tapes, and related measuring devices</li> </ul>					
	determine dimensions and tolerances					
	•					
	measure current					
	measure resistance					
	set and use torque wrench					
2.	Read blueprints and schematics	<b>□1</b>	<b>□1</b>		<b>□1</b>	
	identify symbols					
	<ul> <li>describe parts and specifications</li> </ul>	<u></u>	<b>∐</b> 2	<b>□</b> 2	<u></u>	
		3	3	3	3	
	·					
	describe dimensioning information on industrial parts					
	<ul> <li>identify use of prints in troubleshooting equipment and devices</li> </ul>					
3.	Install electrical and electronic parts	<b>□</b> 1	1		<b>□1</b>	
	interpret electrical schematics	☐ <del>-</del>	□ <del>-</del> □ 2	□ - □ 2	□ <b>-</b>	
	install electrical field devices			_		
	plan control cabinet layout	3	3	<b></b> 3	3	
	p.a co					
4.	Use hand tools	<b>□</b> 1	□ 1	□ 1	□ 1	
	<ul> <li>use measuring devices</li> </ul>	<b>□</b> 2	□ 2	□ 2	□ 2	
	operate drilling tools		 ☐ 3	 ☐ 3	□ 3	
	<ul> <li>operate cutting tools</li> </ul>				_	
	operate fastening tools					
	use bending and shaping equipment					
5.	Install mechanical equipment	□ 1	<u> </u>	<b>1</b>	<u> </u>	
	assemble tools	2	2	2	2	
	• run wires		 ☐ 3	□ 3	□ 3	
	terminate wires					
	label wire					
	assemble basic panels					
	•					

	Occupational Competencies	Rating			
		Evaluation			
		Minimum Rating of 2 EACH			ACH
	Competency and Rating Criteria	Check Rating			
			Mid	Mid	
		Initial	Year 1	Year 2	Final
6.	Troubleshoot electronic systems	<b>□1</b>	<b>□1</b>	<b>□1</b>	<b>□1</b>
	<ul> <li>wear proper personal protective equipment (PPE)</li> </ul>	□ - □ 2	□ - □ 2	□ - □ 2	□ - □ 2
	<ul> <li>follow safety procedures</li> </ul>	_			
	identify common testing procedures	☐ 3	<u> </u>	<u> </u>	<b>3</b>
	inspect electronic system				
	<ul> <li>document troubleshooting steps and results</li> </ul>				
	troubleshoot with plc logic				
	<ul> <li>research solutions to problems</li> </ul>				
7.	Use precision measuring instruments	<b>□</b> 1	<b>□</b> 1	<b>□</b> 1	□ 1
	<ul> <li>identify job-appropriate measuring instrument</li> </ul>	 2	 2	 2	_ 2
	use micrometers	□ <del>-</del>	□ <del>-</del>	□ <del>-</del>	□ <b>-</b>
	• use calipers				_
	• use gages				
	use indicators				
8.	Procure parts	□ 1	□ 1	□ 1	□ 1
	identify parts needed	☐ 2	☐ 2	☐ 2	□ 2
	research needed parts	□3	□3	□3	□3
	determine part source	_	_	_	
	document part order				
Co	mpetency Substitute (if you replaced a competency above, note the	1	<b>□</b> 1	<b>□</b> 1	<b>□1</b>
	mpetency and rating)				
COI	inpetericy and rating,	☐ <b>2</b>	☐ <b>2</b>	<u></u>	<b>□ 2</b>
		☐ 3	∐ 3	∐ 3	∐ 3
Col	mments:				
•					

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