# Welding Youth Apprenticeship



#### **WELDING**

Welding youth apprentices practice welding fabrication processes in various industry environments. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One or two years

#### **OCCUPATIONAL COMPETENCIES**

Welding youth apprentices must complete **a total of 25** competencies. All **7** Manufacturing Fundamentals Competencies must be complete. No substitutions to this list. **Seventeen** of the 18 Welding competencies listed below must be complete. Employers can substitute up to **1** competency with another occupationally appropriate skill. Substitutions must be added to the competency list for assessment. Note that where necessary, skills can be simulated.

NOTE: Students completing a 2-year welding youth apprenticeship must select different welding processes than the first year.

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

Manufacturing Fundamentals Competencies		Welding Competencies		
1.	Focus on customer needs	1.	Read welding technical drawings and work	
2.	Use various instruments		orders	
3.	Operate tools and equipment safely	2.	Interpret welding symbols and procedures	
4.	Practice quality assurance principles	3.	Layout and plan work	
5.	Follow personal safety requirements	4.	Perform safety checks	
6.	Maintain a safe work environment	5.	Prepare base metal	
7.	Demonstrate professional role to be used	6.	Set up to fabricate base metal	
	in an emergency	7.	Set up welding job	
		8.	Fabricate base metal	
		9.	Cut metal thermally/chemically	
		10.	Tack work pieces	
		11.	Weld metal	
		12.	Monitor product and process	
		13.	Assist inspection of completed metal piece	
		14.	Process production documents	
		15.	Clean up	
		16.	Monitor equipment for correct operation	

17. Perform routine preventive maintenance (PM)
18. Document equipment use, PM, and/or
operational problems

#### REGISTERED APPRENTICESHIP BRIDGING OPPORTUNITIES

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

- Welding Fabricator
- Industrial Manufacturing Technician

#### POST-SECONDARY PATHWAY OPPORTUNITIES

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

- Welding Technical Diploma
- Welding and Metal Fabrication Technical Diploma
- Welding Fabrication Technical Diploma





# ON-THE-JOB LEARNING PERFORMANCE STANDARDS GUIDE

## (TO BE COMPLETED BY YA CONSORTIUM)

#### YOUTH APPRENTICE INFORMATION

TOOTH APPRENTICE INFORMATION					
Youth Apprentice Name	Youth Apprentice Name				
YA Coordinator		YA Consortium			
School District		High School Graduation Date			
REQUIREMENTS					
Level One Requirements					
Youth apprentices must complete A Year 1 Competency checklis Employability Skills checklis Related instruction equal to Minimum of 450 work hour	st t (in this OJL Guid o 1 high school cre	e) or the DPI Emp	loyability Skills Certificate		
Level Two Requirements					
Youth apprentices must complete A	ALL the items liste	d below. Check co	ompleted areas.		
Year 2 Competency checklis					
☐ Employability Skills checklis	-	•	·		
☐ Related instruction equal to ☐ Minimum of 900 work hour	_	dits or at least 6 c	college credits		
	5				
HOURS					
Record the hours the youth appren	ntice worked.				
Total Hours Employed	Company Name		Telephone Number		

## **RELATED INSTRUCTION**

YEAR 1: Indicate which related instruction courses the youth apprentice completed.

Dual Credit	Course Number and Title	Credits	Instruction Provider

YEAR 2: Indicate which related instruction courses the youth apprentice completed.

Dual Credit	Course Number and Title	Credits	Instruction Provider

#### **SIGNATURES**

The On-the-Job Learning Performance Standards Guide includes a list of competencies youth apprentices learn through mentoring and training at the worksite.

Instructions for the Worksite Employers/Mentors and School-Based or YA coordinators: This document should be reviewed with the employer/mentor, school-based or YA coordinator on a regular basis with the youth apprentice to record progress and plan future steps to ensure completion of the required competencies. Mentors, school-based/YA coordinator, and the apprentice sign below.

Employer/Mentor Signature	Employer/Mentor Signature
Employer/Mentor	Employer/Mentor
Business/Company	Business/Company
Date Signed	Date Signed
	I
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 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)**

Youth apprentices must demonstrate key employability skills.

The DWD YA program employability skills requirement may be attained and demonstrated through two processes. (See options listed below.) Employability skills must be completed for every year a student is in the program. The DPI Employability Skills Certificate may be counted as meeting one of those two years, provided the certificate is earned in the same year the student is enrolled in youth apprenticeship or they can complete the YA Employability Skills in the OJL. The Employability Skills Certificate must be obtained through the DPI.

- 2. Completed and rated "Employability Skills" through this YA OJL guide as described below.
- Exceeds Expectations: Exceeds entry-level criteria; requires minimal supervision; consistently displays this behavior
   Meets Expectations: Meets entry-level criteria; requires some supervision; often displays this behavior
   Working to Meet Expectations: Needs improvement; requires much assistance and supervision; rarely displays this behavior

The following skills are required of all youth apprentices.

	Employability Skills		Rating	
Competency and Rating Criteria		Minimum Rating of 2 for EAC		
		Check Rating		
		1	2	3
1.	Develops positive work relationships with others.	•	Year 1 Ratir	ıg
	Examples of qualities and habits that the employee might exhibit			
	include	,	Year 2 Ratir	ıg
	<ul> <li>Interacts with others with respect and in a non-judgmental manner</li> </ul>			
	Responds to others in an appropriate and non-offensive manner			
	<ul> <li>Helps co-workers and peers accomplish tasks or goals</li> </ul>			
	<ul> <li>Applies problem-solving strategies to improve relations with others</li> </ul>			
	• When managing others, shows traits such as compassion,			
	listening, coaching, team development, and appreciation			

	Employability Skills		Rating	
2.	Communicates effectively with others	,	Year 1 Ratin	g
	Examples of qualities and habits that the employee might exhibit			
	include	`	Year 2 Ratin	g
	<ul> <li>Adjusts the communication approach for the target audience, purpose, and situation to maximize impact</li> </ul>	П		
	Organizes messages/information in a logical and helpful manner	<u> </u>	_	<del></del>
	Speaks clearly and writes legibly			
	Models behaviors to show active listening			
	Applies what was read to actual practice			
	Asks appropriate questions for clarity			
	,			
3.	Collaborates with others	,	Year 1 Ratin	g
	Examples of qualities and habits that the employee might exhibit			
	include	١	Year 2 Ratin	ıg
	Works effectively in teams with people of diverse backgrounds			
	regardless of sex, race, ethnicity, nationality, sexuality, religion, political views, and abilities			
	<ul> <li>Shares responsibility for collaborative work and decision making</li> </ul>			
	Uses the problem-solving process to work through differences of			
	opinion in a constructive manner to achieve a reasonable			
	compromise			
	Avoids contributing to an unproductive group conflict			
	Shares information and carries out responsibilities in a timely			
	manner			
4.	Maintains composure under pressure		Year 1 Ratin	g
	Examples of qualities and habits that the employee might exhibit include	Ц		
	Uses critical thinking to determine the best options or outcomes	,	Year 2 Ratin	g
	when faced with a challenging situation			
	Carries out assigned duties while under pressure			
	• Acts in a respectful, professional, and non-offensive manner			
	while under pressure			
	Applies stress management techniques to cope under pressure			
5.	Demonstrates integrity	•	Year 1 Ratin	g
	Examples of qualities and habits that the employee might exhibit			
	include	,	Year 2 Ratin	g
	<ul> <li>Carries out responsibilities in an ethical, legal and confidential manner</li> </ul>			
	Responds to situations in a timely manner	 		_
	Takes personal responsibility to correct problems			
	Models behaviors that demonstrate self-discipline, reliability, and			
	dependability			
	. ,			

	Employability Skills		Rating	
6.	Performs quality work	,	Year 1 Ratin	g
	Examples of qualities and habits that the employee might exhibit include			
	Carries out written and verbal directions accurately	•	Year 2 Ratin	ıg
	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			
	<ul> <li>Adheres to worksite regulations and practices</li> </ul>			
	Maintains an organized work area			
7.	Provides quality goods or services (internal and external)	,	Year 1 Ratin	ng
	Examples of qualities and habits that the employee might exhibit			
	include	•	Year 2 Ratin	ıg
	<ul> <li>Shows support for the organizational goals and principles by own personal actions</li> </ul>			
	Displays a respectful and professional image to customers			
	Displays an enthusiastic attitude and desire to take care of			
	customer needs			
	<ul> <li>Seeks out ways to increase customer satisfaction</li> </ul>			
	<ul> <li>Produces goods to workplace specifications</li> </ul>			
8.	Shows initiative and self-direction		Year 1 Ratin	ig
8.	Examples of qualities and habits that the employee might exhibit		Year 1 Ratin	ng 🗌
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Employability Skills		Rating	
10. Demonstrates safety and security regulations and practices	•	ear 1 Ratir	ıg
Examples of qualities and habits that the employee might exhibit			
include	,	ear 2 Ratir	g
Follows personal safety requirements			
Maintains a safe work environment			
Demonstrates professional role in an emergency			
Follows security procedures			
Maintains confidentiality			
11. Applies job-related technology, information, and media		l Year 1 Ratir	~
Examples of qualities and habits that the employee might exhibit			<u>ів</u>
include			
Applies technology effectively in the workplace	'	ear 2 Ratir	ıg
Assesses and evaluates information on the job			
Assesses training manuals, website, and other media related to			
the job			
the job			
12. Fulfills training or certification requirements for employment	,	ear 1 Ratir	ıg
Examples of this requirement may include			
Participation in required career-related training and/or		ear 2 Ratir	ng
educational programs			
<ul> <li>Passing certification tests to qualify for licensure and/or certification</li> </ul>			
Participation in company training or orientation			
Participation in company training or orientation			
13. Sets personal goals for improvement	•	rear 1 Ratir	ıg
Examples of this requirement may include			
<ul> <li>Setting goals that are specific and measurable</li> </ul>		rear 2 Ratir	
<ul> <li>Setting work-related goals that align with the organization's</li> </ul>			<u>ъ</u>
mission			
<ul> <li>Identifying strategies to reach goals</li> </ul>			
Reflecting on goal progress to regularly evaluate and modify goals			

#### **OCCUPATIONAL COMPETENCIES**

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

Welding Production Operations youth apprentices must complete **a total of 25** competencies. All **7** Manufacturing Fundamentals Competencies must be complete. No substitutions to this list. **Seventeen** of the 18 Welding competencies listed below must be complete. Employers can substitute up to **1** competency with another occupationally appropriate skill. Substitutions must be added to the competency list for assessment. Note that where necessary, skills can be simulated.

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

#### **Rating Scale**

- 3: Exceeds entry level criteria | Requires minimal supervision | Consistently displays this behavior
- 2: Meets entry level criteria | Requires some supervision | Often displays this behavior
- 1: Needs improvement | Requires much assistance and supervision | Rarely displays this behavior

If any competencies are rated "1" on the final performance review checklist that is submitted to WI DWD it is considered a failed checklist.

Manufacturing Fundamentals Occupational Competencies		Rating		
Competency and Rating Criteria		Minimum Rating of 2 for EACH Check Rating		
	1	2	3	
<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>				

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

<ul> <li>4. Practice quality a</li> <li>inspect mater</li> <li>identify qualit</li> <li>monitor mate products throe</li> <li>inspect final p specifications</li> <li>identify and se not meet specifical</li> </ul>	with work site professional if duct do not meet requirements	n Rating of 2 Check Ratin 2	
<ul> <li>4. Practice quality a</li> <li>inspect mater</li> <li>identify qualit</li> <li>monitor mate products throe</li> <li>inspect final p specifications</li> <li>identify and se not meet specifical</li> </ul>	issurance principles ials/piece/product at all stages of production y or condition of materials/piece/product rials, processes, equipment, tools, and ughout the production process roduct/piece to ensure it meets egregate materials and/or product that do iffication with work site professional if duct do not meet requirements quality checks		<u> </u>
<ul> <li>inspect mater</li> <li>identify qualit</li> <li>monitor mate products throe</li> <li>inspect final p specifications</li> <li>identify and sent meet specifications</li> </ul>	ials/piece/product at all stages of production y or condition of materials/piece/product rials, processes, equipment, tools, and ughout the production process roduct/piece to ensure it meets egregate materials and/or product that do iffication with work site professional if duct do not meet requirements quality checks	2	3
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<ul> <li>identify and send meet specified</li> </ul>	ification with work site professional if duct do not meet requirements quality checks		
not meet spec	ification with work site professional if duct do not meet requirements quality checks		
<ul> <li>communicate</li> </ul>	duct do not meet requirements quality checks		
Communicate	quality checks		
materials/pro	• •		Ī
document all of	root-cause analysis of process/product		
participate in			
<ul> <li>take ownershi</li> </ul>	p of work		
<ul> <li>collaborate wi action</li> </ul>	th work site professional on corrective		
5. Follow personal	safety requirements (safety)		
participate in	required safety training		
<ul> <li>follow all work</li> </ul>	ksite guidelines for personal safety		
<ul> <li>apply principle</li> </ul>	es of proper body mechanics		
· · · · · · · · · · · · · · · · · · ·	res, injuries, near misses, or accidents, others immediately		
<ul> <li>locate key info (MSDS)</li> </ul>	ormation on Material Safety Data Sheets		
<ul> <li>handle and disappropriately</li> </ul>	spose of any hazardous materials		
<ul> <li>operate equip</li> </ul>	ment that he/she is trained on		
<ul> <li>adhere to equ</li> </ul>	ipment safety standards		
<ul> <li>visually inspect</li> </ul>	t equipment before operation		
<ul> <li>wear required times</li> </ul>	Personal Protective Equipment (PPE) at all		
follow compar	ny emergency action plan		
identify hazard workplace	dous conditions and restricted areas in the		
avoid pinch po	pints		
be aware of su			

	Manufacturing Fundamentals Occupational Competencies		Rating	
		Minimun	n Rating of 2	for EACH
	Competency and Rating Criteria		Check Ratin	g
		1	2	3
6.	Maintain a safe work environment (safety)			
	<ul> <li>comply with posted safety warnings and symbols</li> </ul>			i
	<ul> <li>identify unsafe conditions and/or work habits</li> </ul>			İ
	<ul> <li>report unsafe conditions and/or work habits</li> </ul>			i
	<ul> <li>help maintain a clean and safe working environment free</li> </ul>			i
	of debris and obstacles			İ
	<ul> <li>maintain clean, organized work area</li> </ul>			i
	<ul> <li>use hazardous materials according to company procedure</li> </ul>			i
	<ul> <li>report any indications of insects or pests, if necessary</li> </ul>			i
	<ul> <li>follow appropriate Lock out – tag out procedures</li> </ul>			i
	adhere to Occupational Safety and Health Administration			i
	(OSHA) Safety guidelines			i
	<ul> <li>follow rules for operating equipment (Powered Industrial</li> </ul>			i
	Vehicle PIV)			İ
	<ul> <li>identify applicable Emergency Stops</li> </ul>			İ
7.	Demonstrate professional role to be used in an		Ш	
	emergency (safety)			İ
	participate in emergency safety simulations and drills			i
	describe company's policy and procedures for work site			i
	incidents, accidents, electrical, fire, tornado, bomb			i
	threats, robbery, hostage situations, and other emergency situations			İ
	<ul> <li>identify the closest fire alarms and emergency exits</li> </ul>			İ
	<ul> <li>identify the fire extinguishers</li> </ul>			i
	<ul> <li>identify appropriate alarms and procedures for using</li> </ul>			i
	alarms			i
	<ul> <li>contact emergency personnel in the event of an</li> </ul>			İ
	emergency			ı
	contribute to emergency incident documentation			İ
_				
Со	mments:			

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

Select welding processes practiced by the Youth Apprentice.

Welding Processes	Thermal /Chemical Cutting Processes
☐ Flux-cored Arc Welding (FCAW)	☐ Air Carbon Arc
☐ Gas Metal Arc Welding (GMAW-MIG)	Laser
☐ Gas Tungsten Arc Welding (GTAW-TIG)	Oxy-fuel Manual
☐ Submerged Arc Welding (SAW)	Oxy-fuel Machine
☐ Shielded Metal Arc Welding (SMAW-Stick)	☐ Plasma Manual
☐ Other:	☐ Plasma Machine
	Other:

	Occupational Competencies		Rating	
	Competency and Rating Criteria	1	2	3
1.	Read welding technical drawings and work orders	,	Year 1 Ratir	ıg
	<ul> <li>review technical drawing</li> </ul>			
	<ul> <li>gather reference materials</li> </ul>	,	Year Rating	2
	<ul> <li>determine type of weld required</li> </ul>			
	<ul> <li>determine location of weld required</li> </ul>			
	determine filler metal required			
	<ul> <li>determine welding process</li> </ul>			
	<ul> <li>analyze supplementary data</li> </ul>			
	<ul> <li>determine product/job instructions and specifications</li> </ul>			
	<ul> <li>interpret welding symbols and procedures</li> </ul>			
2.	Interpret welding symbols and procedures	,	Year 1 Ratir	ng .
	<ul> <li>interpret job task technical drawings accurately</li> </ul>			
	use appropriate terminology		Year 2 Ratir	<u> </u>
	<ul> <li>identify lines, views, symbols, and representations on</li> </ul>			
	the drawings			
	• interpret dimensions, tolerances, and scale on the			
	drawings			
	<ul> <li>interpret the welding process plan from a technical</li> </ul>			
	drawing which includes			
	<ul> <li>identify required welding tools</li> </ul>			
	<ul> <li>identify required welding equipment</li> </ul>			
	<ul> <li>identify required welding speeds</li> </ul>			
	<ul> <li>identify required welding feeds</li> </ul>			
	<ul> <li>identify required welding fixtures identify required</li> </ul>			
	welding holders			

	Occupational Competencies		Rating	
	Competency and Rating Criteria	1	2	3
3.	Layout and plan work	•	Year 1 Ratin	g
	<ul> <li>read welding technical drawings and work orders</li> </ul>			
	<ul> <li>interpret welding symbols and procedure</li> </ul>	•	Year 2 Ratin	g
	<ul> <li>review appropriate welding, cutting and/or fabricating</li> </ul>			
	procedures			
	determine equipment, work pieces, and supplies			
	needed			
	determine metal type, electrode type, welding position,			
	and metal thickness			
	<ul> <li>select jigs, holding fixtures, guides and stops</li> </ul>			
	obtain materials for work			
	measure and mark weld or cut points and positions of			
	components on work pieces			
	plan sequencing of work			
	document measurements and layout			
	,			
4.	Perform safety checks	•	Year 1 Ratin	g
	review welding procedure to be used	П		
	review safety requirements of procedure		Year 2 Ratin	σ
	<ul> <li>verify safety equipment and Personal Protective</li> </ul>			<u>5</u> □
	Equipment (PPE) needed for welding process	Ш	Ш	Ш
	<ul> <li>verify equipment is available for use and in working</li> </ul>			
	order			
	verify equipment is current for preventative			
	maintenance and/or calibration			
	conduct required safety checks prior to performing			
	procedure			
	ensure area is dry and facilitates circulation of clean air			
	ensure workspace is clear and free of flammable			
	materials			
	assure safety equipment is close by and operational			
	check valves, valve protection, thread type and			
	wrenches			
	check grounding, cables, voltage/current transformation			
	components			
	check ventilation and fume reduction requirements			
	ensure compressed gas protector cap is secure when			
	moving cylinder			
	secure compressed gas cylinder in vertical position			
	<ul> <li>inspect compressed gas valve, regulator and gauges for</li> </ul>			
	damage			
	<ul> <li>connect and adjust compressed gas tank pressure</li> </ul>			
	according to manufacturer specifications			
	report wear, damage or failure of safety checks to work			
	site professional immediately			
	,			

	Occupational Competencies		Rating	
	Competency and Rating Criteria	1	2	3
5.	Prepare base metal	•	Year 1 Ratin	g
	review procedures			
	determine base metal or work piece preparation	•	Year 2 Ratin	g
	requirements			
	obtain correct base metal type and thickness	_		_
	<ul> <li>prepare base metal surfaces as required</li> </ul>			
	<ul> <li>use cleaning solutions if needed</li> </ul>			
	<ul> <li>examine edges of prepared base metal parts</li> </ul>			
	<ul> <li>grind base carbon steel metal to bevel and/or remove</li> </ul>			
	surface irregularities			
	check uniformity, proper fit-up, and base metal			
	preparation			
	pre-heat metal as specified			
	fit and preheat parts as specified			
6.	Set up to fabricate base metal		Year 1 Ratin	<u>g</u>
	prepare base metal			
	set up to fabricate base metal	<u> </u>	Year 2 Ratin	g
	add or adjust safety guards			
	verify machine settings for material			
	verify blades, shears, dies, etc., appropriate for metal     fabrication to be completed.			
	fabrication to be completed			
	<ul><li>perform equipment pre-check</li><li>make test cuts</li></ul>			
	<ul> <li>adjust holding devices, blade speeds, and metal</li> </ul>			
	positions safely as needed			
	<ul> <li>operate tools and equipment safely</li> </ul>			
	fabricate base metal			
	use hand tools such as brakes and hammers			
	<ul> <li>use equipment such as such as grinders, saws, drills, drill</li> </ul>			
	presses, or brakes			
	• complete cuts			
	inspect, measure, or test completed metal pieces			
	shut down and secure equipment			
	• clean up			
	report any discrepancies or equipment concerns to work			
	site professional immediately			
	document cutting process			
	layout and plan work			
	perform safety checks			
	assemble tools and equipment as required			
	<ul> <li>place parts and assemblies into fixtures</li> </ul>			
	set up equipment for fabrication			
	document set up procedure if required			
	<ul> <li>locate parts or subassemblies needed</li> </ul>			
	<ul> <li>determine the order for the part or subassembly</li> </ul>			
	placement			

	Occupational Competencies		Rating	
	Competency and Rating Criteria	1	2	3
8.	Fabricate base metal	,	Year 1 Ratin	ng
	<ul> <li>prepare base metal</li> </ul>			
	<ul> <li>set up to fabricate base metal</li> </ul>	,	Year 2 Ratin	ng
	<ul> <li>add or adjust safety guards</li> </ul>			
	<ul> <li>verify machine settings for material</li> </ul>			
	<ul> <li>verify blades, shears, dies, etc., appropriate for metal</li> </ul>			
	fabrication to be completed			
	<ul> <li>perform equipment pre-check</li> </ul>			
	<ul> <li>make test cuts</li> </ul>			
	<ul> <li>adjust holding devices, blade speeds, and metal</li> </ul>			
	positions safely as needed			
	<ul> <li>operate tools and equipment safely</li> </ul>			
	<ul> <li>use hand tools such as brakes and hammers</li> </ul>			
	• use equipment such as such as grinders, saws, drills, drill			
	presses, or brakes			
	<ul> <li>complete cuts</li> </ul>			
	<ul> <li>inspect, measure, or test completed metal pieces</li> </ul>			
	<ul> <li>shut down and secure equipment</li> </ul>			
	• clean up			
	<ul> <li>report any discrepancies or equipment concerns to</li> </ul>			
	worksite professional immediately			
	<ul> <li>document cutting process if required</li> </ul>			
	a deather eathing process in required			
9.	Cut metal thermally/chemically	,	Year 1 Ratin	ng
9.	Cut metal thermally/chemically  • prepare base metal		Year 1 Ratir	ng
9.	Cut metal thermally/chemically  • prepare base metal  • set up to fabricate base metal		Year 1 Ratir	
9.	Cut metal thermally/chemically  • prepare base metal  • set up to fabricate base metal  • adjust voltage and/or amperage per procedure			
9.	Cut metal thermally/chemically  • prepare base metal  • set up to fabricate base metal  • adjust voltage and/or amperage per procedure  • select appropriate program			
9.	Cut metal thermally/chemically  • prepare base metal  • set up to fabricate base metal  • adjust voltage and/or amperage per procedure  • select appropriate program  • set wire feed rate or shielding gas flow/pressure at			
9.	<ul> <li>Cut metal thermally/chemically</li> <li>prepare base metal</li> <li>set up to fabricate base metal</li> <li>adjust voltage and/or amperage per procedure</li> <li>select appropriate program</li> <li>set wire feed rate or shielding gas flow/pressure at correct value</li> </ul>			
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9.	Cut metal thermally/chemically  prepare base metal  set up to fabricate base metal  adjust voltage and/or amperage per procedure  select appropriate program  set wire feed rate or shielding gas flow/pressure at correct value  make test cuts  adjust pressures, amperage, voltage, flow rates, torch			
9.	<ul> <li>Cut metal thermally/chemically</li> <li>prepare base metal</li> <li>set up to fabricate base metal</li> <li>adjust voltage and/or amperage per procedure</li> <li>select appropriate program</li> <li>set wire feed rate or shielding gas flow/pressure at correct value</li> <li>make test cuts</li> <li>adjust pressures, amperage, voltage, flow rates, torch angles, flame sizes, travel speed</li> </ul>			
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9.	Cut metal thermally/chemically  prepare base metal  set up to fabricate base metal  adjust voltage and/or amperage per procedure  select appropriate program  set wire feed rate or shielding gas flow/pressure at correct value  make test cuts  adjust pressures, amperage, voltage, flow rates, torch angles, flame sizes, travel speed  operate tools and equipment safely  complete cuts			
9.	Cut metal thermally/chemically  prepare base metal  set up to fabricate base metal  adjust voltage and/or amperage per procedure  select appropriate program  set wire feed rate or shielding gas flow/pressure at correct value  make test cuts  adjust pressures, amperage, voltage, flow rates, torch angles, flame sizes, travel speed  operate tools and equipment safely  complete cuts  remove any slag or residue			
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9.	Cut metal thermally/chemically  prepare base metal  set up to fabricate base metal  adjust voltage and/or amperage per procedure  select appropriate program  set wire feed rate or shielding gas flow/pressure at correct value  make test cuts  adjust pressures, amperage, voltage, flow rates, torch angles, flame sizes, travel speed  operate tools and equipment safely  complete cuts  remove any slag or residue  inspect, measure, or test completed metal pieces  shut down and secure equipment  clean up			
9.	Cut metal thermally/chemically  prepare base metal  set up to fabricate base metal  adjust voltage and/or amperage per procedure  select appropriate program  set wire feed rate or shielding gas flow/pressure at correct value  make test cuts  adjust pressures, amperage, voltage, flow rates, torch angles, flame sizes, travel speed  operate tools and equipment safely  complete cuts  remove any slag or residue  inspect, measure, or test completed metal pieces  shut down and secure equipment  clean up  report any discrepancies or equipment concerns to			
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Occupational Competencies		Rating	
Competency and Rating Criteria	1	2	3
10. Tack work pieces	•	Year 1 Ratin	ıg
<ul> <li>position the work pieces</li> </ul>			
<ul> <li>tack-weld them together lightly</li> </ul>	•	Year 2 Ratin	ıg
<ul> <li>weld just enough to pin the work pieces together</li> </ul>			
<ul> <li>adjust and re-align assemblies as needed to keep pieces</li> </ul>	_		
positioned			
<ul> <li>remove slag or other material</li> </ul>			
check that all required work pieces are tacked before			
attempting full welds			
<ul> <li>check the pieces for appropriate geometry by measuring</li> </ul>			
11. Weld metal	,	Vaar 1 Datin	_
		Year 1 Ratin	ig I ¬
<ul><li>prepare base metal</li><li>set up to fabricate base metal</li></ul>		<u> </u>	
<ul> <li>verify and adjust settings for required process</li> </ul>		Year 2 Ratin	ig
<ul> <li>select appropriate program where required</li> </ul>			
make test welds			
<ul> <li>adjust pressures, amperage, voltage, flow rates, torch</li> </ul>			
angles, flame sizes, travel speed, etc.			
<ul> <li>hold the welding gun appropriately to prevent weld</li> </ul>			
wandering			
<ul> <li>operate tools and equipment safely</li> </ul>			
make fillet welds on plain carbon steel, stainless steel or			
aluminum in required positions			
make groove welds on plain carbon steel, stainless steel			
or aluminum in required positions			
<ul> <li>monitor metal for appropriate welds</li> </ul>			
12. Monitor product and process		Year 1 Ratin	ig
<ul> <li>monitor piece/product produced for specification</li> </ul>			
recheck type of metal to be welded	`	Year 2 Ratin	ıg
monitor the process and equipment for performance			
check condition of consumables			
recheck required positioning of the weld gun or torch			
<ul> <li>adjust the process for quality and/or productivity as needed</li> </ul>			
<ul> <li>take corrective actions to resolve problems as they</li> </ul>			
occur			
<ul> <li>replenish processing materials as needed</li> </ul>			
label pieces/products for compliance or non-compliance			
document quality control checks			
<ul> <li>pieces are fabricated to specified tolerances</li> </ul>			
			•

Occupational Competencies		Rating	
Competency and Rating Criteria	1	2	3
13. Assist inspection of completed metal piece	,	Year 1 Ratin	ıg
<ul> <li>ensure conformance to specifications, using visual</li> </ul>			
inspection, measuring, and testing devices	,	Year 2 Ratin	g
<ul> <li>examine edges and geometry of cut pieces examine</li> </ul>			
tacks, root passes, intermediate layers, and completed			
welds			
check for weld discontinuity and defects visually			
check for proper weld size			
perform destructive or non-destructive checks as			
required			
label pieces/products for compliance or non-compliance			
document inspection and testing as required  14. Process and destination describes	,	Vaar 1 Datin	
14. Process production documents		Year 1 Ratin	ıg □
<ul> <li>document processing data on items such as labor, quality, quantity, and time</li> </ul>			
<ul> <li>verify fabrication and welding documentation is</li> </ul>		Year 2 Ratin	<u>g</u>
completed			
verify documentation is legible			
<ul> <li>verify documentation is tegisle</li> <li>verify documentation is complete</li> </ul>			
<ul> <li>verify documentation is in appropriate format</li> </ul>			
<ul> <li>verify documentation is stored or forwarded as required</li> </ul>			
review documentation with work site professional			
15. Clean up	•	Year 1 Ratin	ng
<ul> <li>select appropriate cleaning tools and equipment</li> </ul>			
<ul> <li>clean tools/equipment as required</li> </ul>		Year 2 Ratin	<u> </u>
clean work area as required			<u>'8</u>
store tools safely in proper location			Ш
store materials in safe manner			
<ul> <li>identify unsafe conditions and report them promptly</li> </ul>			
<ul> <li>take corrective action to correct unsafe conditions</li> </ul>			
<ul> <li>ensure that workstation is clean and clear of safety</li> </ul>			
hazards			
<ul> <li>ensure workstation is organized for efficiency</li> </ul>			
<ul> <li>dispose of waste appropriately as required</li> </ul>			
16. Monitor equipment for correct operation		Year 1 Ratin	g
review equipment quality measures for trends and			
problems as required	•	Year 2 Ratin	ıg
compare current equipment performance to optimal			
equipment operations on a regular basis			
<ul> <li>report any noted deviations from expected performance</li> <li>assist worksite professional to investigate abnormal</li> </ul>			
<ul> <li>assist worksite professional to investigate abnormal equipment conditions in a timely manner</li> </ul>			
assist worksite professional to follow up on repaired			
equipment to ensure that corrective action solved the			
problem			
document all monitoring activities			
333333			

Occupational Competencies		Rating	
Competency and Rating Criteria	1	2	3
17. Perform routine preventive maintenance (PM)	•	Year 1 Ratin	g
<ul> <li>perform preventative maintenance (PM) according to</li> </ul>			
facility schedule	•	Year 2 Ratin	g
communicate PM to production			
<ul> <li>assure that alternative equipment is available if needed</li> </ul>			
by production			
gather supplies to perform PM			
ensure that equipment is properly labeled and pulled			
from production use			
follow appropriate lock coil break, wire de-reeler,			
flowmeter, wire guides, and drive rollers on gas metal			
<ul><li>arc and flux core welding equipment.</li><li>remove weld spatter and foreign material from guns,</li></ul>			
torches, and/or electrode holders			
<ul> <li>inspect hand tools, fixtures, and/or tables</li> </ul>			
mount wire electrode coils if applicable			
inspect and clean work areas			
<ul> <li>report any damage, wear, or missing safety equipment</li> </ul>			
to worksite professional			
re-qualify equipment for operation			
<ul> <li>document PM and preventative actions taken</li> </ul>			
18. Document equipment use, PM, and/or operational	•	Year 1 Ratin	g
problems			
verify all internal and external communication with	•	Year 2 Ratin	g
appropriate parties in a timely manner			
communicate maintenance and repair needs clearly			
use the correct reporting formats for communication			
<ul> <li>document use, maintenance, and repair activities accurately</li> </ul>			
<ul> <li>report back and document any maintenance and repair</li> </ul>			
issues in a timely manner			
maintenance communication is timely and accurate			
maintenance communication is documented			
Competency Substitute (if you replaced a competency above,			
note the competency and rating)	<u>—</u>		
Comments:		ı	
Comments.			
Comments.			



# **Post-Program Completion Survey**

Youth Apprenticeship

#### YA POST-PROGRAM COMPLETION SURVEY: EMPLOYER FEEDBACK

Employers complete the following information. YA Coordinators will enter this into the Post-Program Completion Survey.

YA Employer Post-Program Completion Questions	
Will you offer or have you offered the Youth Apprentice a continuing position with your company?	☐ Yes ☐ No
If continuing position offered to youth apprentice, did they accept?	Yes
	☐ No
If yes, please answer the questions below:	
Was the offer for full time or part time work?	☐ Full-time ☐ Part-time
Title of the position offered:	
What is the wage of the continuing employment offer?	
If applicable, will the youth apprentice advance to a Registered Apprenticeship?	

#### YA POST-PROGRAM COMPLETION SURVEY: COMPLETED BY YA CONSORTIUM

The <u>Post-Program Completion Survey</u> form is to be provided to each student completing the Youth Apprenticeship program to capture information on the student's plans after leaving the program. This **form should be completed by the Youth Apprenticeship Coordinator** to capture information from all high school seniors and their employers after successful completion of the Youth Apprenticeship Program.

The form should be completed during the final meeting between the student, mentor, and Youth Apprenticeship Coordinator, when the final checklist or On-the-Job Learning (OJL) Guide is filled out and signed. Information captured on this form must be entered online using the Bureau of Apprenticeship Standards Electronic Records System (BASERS).

No part of this document may be altered, duplicated, or extracted without written consent from the Wisconsin Department of Workforce Development (DWD).

DWD is an equal opportunity employer and service provider. If you have a disability and need assistance with this information, please dial 7-1-1 for Wisconsin Relay Service. Please contact the Division of Employment and Training at 888-258-9966 and press 6 to request information in an alternate format, including translated to another language.

