2019 **Skills-to-Course Matrix**

Manufacturing **Westview High School** Portland Community College Sep-19

CCTC* Code Number

MN02

MN 3 MN03

Manufacturing Cluster

Instructions: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names--secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are <u>taught with</u> intent and purpose, and are <u>assessed</u> in each course. Note: The optional Focus Area tabs below are included for those POSs that have a very specific industry fociusare using those skill sets for multiple options in a Progam of Study or if you want to use another set of industry validated standards.

manufacturing.

ecc y or SA fo <u>e,</u> a d fo	ne, etc., and replace with your POS course namessecondary and andary. 6) Enter school course numbers. 7) Enter NCES code for the ally). 8) Enter number of credits awarded. 9) Identify those courses or this POS. 10) Finally, check those standards that are taught with and are assessed in each course. Note: The optional Focus Area tabs or those POSs that have a very specific industry fociusare using those options in a Progam of Study or if you want to use another set of industry.	Creative Design 101	Creative Design 102	Manufacturing 1	Manufacturing 1	cato ¹	CAD2	CAD3	Roborics 1	Robotics 2	(Course 9 Marne)	(Course to Marne)
		A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]	[Course Number]
		13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]	[NCES Code]
Clu	ster Knowledge and Skills (CTE standards)	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]	[# of Credits]
ber	KS Statement	N	N	Υ	Y	N	N	N	N	N	[TSAY or N?]	[TSAY or N?]
	Evaluate the nature and scope of the Manufacturing Career Cluster [™] and the role of manufacturing in society and in the economy.			x	x	x	x	x	x	x		
	Analyze and summarize how manufacturing businesses improve performance.			х	х							
	Comply with federal, state and local regulations to ensure worker safety and health and environmental work practices.	х	x	x	x							
	Describe career opportunities and means to achieve those opportunities in each of the Manufacturing Career Pathways.	х	x	x	x	x	x	х	x	x		
	Describe government policies and industry standards that apply to											

Skills-to-Course Matrix

Manufacturing **Westview High School Portland Community College**

Mar-19

CCTC*

MN-HSE 1

MN-HSE 2

MN-HSE 3

MN-HSE 4

MN-HSE 5

MN-HSE 6

MH-HSE 7

Code Number

MNHS01

MNHS02

MNHS03

MNHS04

MNHS05

MNHS06

MNHS

Manufacturing Cluster

<u>Instructions</u>: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names--secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter course (secondary only). 8) Enter number of credits awarded. 9) Identi that trigger the TSA for this POS. 10) Finally, check those standards the intent and purpose, and are assessed in each course. Note: The option below are included for those POSs that have a very specific industry fo skill sets for multiple options in a Progam of Study or if you want to use industry validated standards.

nealth and safety regulations.

ndary only). 8 e TSA for this <u>pose,</u> and ar luded for thos	y. 6) Enter school course numbers. 7) Enter NCES code for the) Enter number of credits awarded. 9) Identify those courses is POS. 10) Finally, check those standards that are taught with e assessed in each course. Note: The optional Focus Area tabs se POSs that have a very specific industry fociusare using those his in a Progam of Study or if you want to use another set of dis.	Creative Design non	Creative Design 102	Manufacturing 1	Manufacturing 1	cath'	CAD ²	CAD 3	Roborics 1	Raboics 2	(Course to Marine)
		A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]
		13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]
Cluster	Knowledge and Skills (CTE standards)	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]
Code Number	KS Statement	N	N	Υ	Υ	N	N	N	N	N	[TSAY or N?]
NHS01	Demonstrate the safe use of manufacturing equipment.										
NHS02	Develop safety plans for production processes that meet health, safety and environmental standards.										
NHS03	Demonstrate a safety inspection process to assure a healthy and safe manufacturing environment.										
/NHS04	Evaluate a system of health, safety and/or environmental programs, projects, policies or procedures to determine compliance.										
NHS05	Evaluate continuous improvement protocols and techniques in health, safety and/or environmental practices.										
NHS06	Conduct job safety and health analysis for manufacturing jobs, equipment										
INHS	Develop the components of a training program based on environmental										

Skills-to-Course Matrix

Manufacturing

CCTC*

MN-LOG 1

MN-LOG 2

MN-LOG 3

MN-LOG 4

Westview High School Portland Community College Mar-19

Code Number

MNLG01

MNLG02

MNLG03

MNLG04

Manufacturing Cluster

Instructions: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names--secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are taught with intent and purpose, and are assessed in each course. Note: The optional Focus Area tabs below are included for those POSs that have a very specific industry fociusare using those skill sets for multiple options in a Progam of Study or if you want to use another set of industry validated standards

Cluster Knowledge and Skills (CTE standards)

KS Statement

Demonstrate positive customer service skills in regard to logistics and inventory control

Demonstrate proper handling of products and materials in a manufacturing facility.

Develop a safety inspection process to assure a healthy and safe manufacturing

Manage inventory using logistics and control processes and procedures.

f Cres	ative Design 101	Creative Design 102	Manufacturing 1	Manufacturing 1	cao^	CAD ²	CAD 3	Robotics 1	Robonics 2	(Course to Marne)
	A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]
	13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]
	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]
	N	N	Υ	Υ	N	N	N	N	N	[TSAY or N?]
ol										
										\perp

Skills-to-Course Matrix

Manufacturing

CCTC*

Westview High School Portland Community College Mar-19

Code Number

MNMF01

MNMF02 MNMF03

MNMF04

MNMF05

MNMF06

MNMF07

MNMF08

MNMF09 MNMF10

MNMF11

Manufacturing Cluster

<u>Instructions</u>: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names-secondary and first year of post-secondary. 6) Enter school course numbers. 7) Ent NCES code for the course (secondary only). 8) Enter number of credits awarded. Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are taught with intent and purpose, and are assessed in each course Note: The optional Focus Area tabs below are included for those POSs that have a specific industry fociusare using those skill sets for multiple options in a Progam of or if you want to use another set of industry validated standards.

Cluster Knowledge and Skills (CTE standards)

machining processes.

se na nt s re	of post-secondary. 6) Enter school course numbers. 7) Enter to (secondary only). 8) Enter number of credits awarded. 9) It trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a very e using those skill sets for multiple options in a Progam of Study her set of industry validated standards.	Creative Design 101	Creative Design 102	Manufacturing 1	Manufacturing \	cAD^	cAD ²	CADS	Roborics 1	Robonics 2	(Course to Marne)
		A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]
		13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]
r	Knowledge and Skills (CTE standards)	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]
er	KS Statement	N	N	Υ	Y	N	N	N	N	N	[TSAY or N?]
	Perform skills necessary to operate metalforming equipment.										
	Handle materials used in metalforming operations.										
	Perform skills necessary in planning and controlling metalforming operations.										
	Perform bench operations related to machining.										
	Perform metal cutting operations on a lathe.										
	Perform metal cutting operations on a mill.										
	Perform metal cutting operations using contour sawing and electric discharge.										
	Perform metal cutting operations using a drill press.										
	Perform metal cutting operations using grinding equipment.										
	Perform inspection and quality assurance procedures in machining.										
	Understand properties of materials and their relationship to										

Skills-to-Course Matrix

Manufacturing **Westview High School** Portland Community College **Mar-19**

CCTC* Code Number

MN-MIR 1 MNMR01

MIN-MIR 2 MNMR02

MN-MIR 3 MNMR03

MN-MIR 4 MNMR04

MN-MIR 5 MNMR05

MN-MIR 6 MNMR06

Manufacturing Cluster

<u>Instructions</u>: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names-secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are <u>taught with intent and purpose</u>, and are <u>assessed</u> in each course. Note: The optional Focus Area tabs below are included for those POSs that have a ve specific industry fociusare using those skill sets for multiple options in a Progam of St or if you want to use another set of industry validated standards.

Cluster Knowledge and Skills (CTE standards)

maintenance program.

urs th igh cu sa	of post-secondary. 6) Enter school course numbers. 7) Enter see (secondary only). 8) Enter number of credits awarded. 9) at trigger the TSA for this POS. 10) Finally, check those at with intent and purpose, and are assessed in each course. It with intent and purpose, and are assessed in each course. It with intent and purpose, and are assessed in each course. It with intent and purpose, and are assessed in each course. It with intent and purpose, and are assessed in each course. It will be a very refer to be a very refer to be a very refer to be a very very refer to be a very very very refer to be a very very very very very very very very	Creative Design 101	Creative Design 102	Manufacturing?	Manufacturing 1	CAO^	CAD2	CAD3	Robotics 1	Robotics ²	(Course 10 Martie)
		A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]
		13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]
te	r Knowledge and Skills (CTE standards)	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]
er	KS Statement	N	N	Υ	Υ	N	N	N	N	N	[TSAY or N?]
	Demonstrate maintenance skills and proficient operation of equipment to maximize manufacturing performance.										
	Demonstrate the safe use of manufacturing equipment to ensure a safe and healthy environment.										
	Diagnose equipment problems and effectively repair manufacturing equipment.										
	Investigate and employ techniques to maximize manufacturing equipment performance.										
·	Implement a preventative maintenance schedule to maintain manufacturing equipment, tools and workstations.										
	Implement an effective, predictive and preventive manufacturing equipment										

Skills-to-Course Matrix

Manufacturing **Westview High School** Portland Community College

CCTC* Code Number

MN-PPD 1 MNXA01

MN-PPD 2 MNXA02

MN-PPD 3 MNXA03

MN-PPD 4 MNXA04

MN-PPD 5 MNXA05

Mar-19

Manufacturing Cluster

<u>Instructions</u>: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names-secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards. that are taught with intent and purpose, and are optional Focus Area tabs below are included for industry fociusare using those skill sets for mul want to use another set of industry validated sta

or the course courses that with inter us Area tabassare using	se (secondary only). 8) Enter number of credits awarded. 9) hat trigger the TSA for this POS. 10) Finally, check those standards in the area included for those POSs that have a very specific those skill sets for multiple options in a Progam of Study or if you of industry validated standards.	Creative Design 101	Creative Design 102	Manufacturing 1	Manufacturing 1	CAD^	CAD2	CAD ³	Roborics 1	Robotics 2	(Course to Mame)
		A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]
		13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]
Cluste	er Knowledge and Skills (CTE standards)	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]
de Number	KS Statement	N	N	Υ	Υ	N	N	N	N	N	[TSAY or N?]
IXA01	Produce quality products that meet manufacturing standards and exceed customer satisfaction.										
IXA02	Research, design and implement alternative manufacturing processes to manage production of new and/or improved products.										
	Monitor, promote and maintain a safe and productive workplace using techniques and solutions that ensure safe production of products.										
	Implement continuous improvement processes in order to maintain quality within manufacturing production.										
	Develop procedures to create products that meet customer needs.										

Skills-to-Course Matrix

Manufacturing

CCTC* Code Number

MNPJ01

MNPJ02

MNPJ03

MNPJ04

MNPJ05 MNPJ06

MNPJ07

MNPJ08

MNPJ09

Westview High School Portland Community College Mar-19

Manufacturing Cluster

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or the course course the course the taugh at are taugh tional Focustry fociusal	of post-secondary. 6) Enter school course numbers. 7) Enter se (secondary only). 8) Enter number of credits awarded. 9) at trigger the TSA for this POS. 10) Finally, check those twith intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a very re using those skill sets for multiple options in a Progam of Study ther set of industry validated standards.	Creative Design non	Creative Design 102	Manufacturing 1	Manufacturing 1	CAD'	CAO2	CAD ³	Roborics 1	Roborics 2	Course to Marie
		A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]
		13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]
Cluste	r Knowledge and Skills (CTE standards)	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]
de Number	KS Statement	N	N	Υ	Υ	N	N	N	N	N	[TSAY or N?]
IPJ01	Apply measurement and scale concepts in drafting and design.										
IPJ02	Interpret engineering documents and control documents.										
IPJ03	Create technical sketches using drafting procedures.										
IPJ04	Use a CADD system and procedures.										
IPJ05	Detail projection views/components.										
IPJ06	Explore mechanical drafting/design concepts and problems.										
IPJ07	Demonstrate drafting/design concepts as related to basic										
	manufacturing processes.										
IPJ08	Incorporate geometric dimensioning and tolerancing (GDT)										
	standards.										

Skills-to-Course Matrix

Manufacturing

CCTC* Code Number

MN-PRO 1 MNPR01

MN-PRO 2 MNPR02

MN-PRO 3 MNPRO3

MN-PRO 4 MNPR04

MN-PRO 5 MNPR05

Westview High School Portland Community College Mar-19

Manufacturing Cluster

Instructions: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names--secondary and first year of post-secondary. 6) course (secondary only). 8 trigger the TSA for this PO and purpose, and are asse are included for those POS sets for multiple options in validated standards.

econdary. dary only) A for this l and are <u>as</u> or those P	6) Enter school course numbers. 7) Enter NCES code for the (). 8) Enter number of credits awarded. 9) Identify those courses that POS. 10) Finally, check those standards that are taught with intent (ssessed in each course. Note: The optional Focus Area tabs below POSs that have a very specific industry fociusare using those skills in a Progam of Study or if you want to use another set of industry	Creative Design non	Creative Design 102	Manufacturing 1	Manufacturing 1	cAO^	CAO2	CAD ³	Robotics 1	Rabatics 2	(Course to Marie)
		A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]
		13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]
Clust	er Knowledge and Skills (CTE standards)	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]
de Number	KS Statement	N	N	Y	Υ	N	N	N	N	N	[TSAY or N?]
PR01	Diagnose production process problems and take corrective action to meet production quality standards.										
PR02	Manage safe and healthy production working conditions and environmental risks.										
PR03	Make continuous improvement recommendations based on results of production process audits and inspections.										
PR04	Coordinate work teams when producing products to enhance production process and performance.										
PR05	Demonstrate the safe use of manufacturing equipment.										

Skills-to-Course Matrix

Manufacturing

CCTC* Code Number

MN-QA 1 MNQA01

MN-QA 2 MNQA02

MN-QA 3 MNQA03

MN-QA 4 MNQA04

MN-QA 5 MNQA05

MN-QA 6 MNQA06

MN-QA 7 MNQA07

Westview High School Portland Community College Mar-19

Manufacturing Cluster

<u>Instructions</u>: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names-secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary Identify those courses that trigger the that are taught with intent and purpose optional Focus Area tabs below are in industry fociusare using those skill set want to use another set of industry val

or the cour courses that with inter us Area tab usare using	se (secondary only). 8) Enter school course numbers. 7) Enter se (secondary only). 8) Enter number of credits awarded. 9) hat trigger the TSA for this POS. 10) Finally, check those standards in the standards and purpose, and are assessed in each course. Note: The selow are included for those POSs that have a very specific those skill sets for multiple options in a Progam of Study or if you of industry validated standards.	Creative Design 101	Creative Design 102	Manufacturing 1	Manufacturing 1	CAD^	CAD2	CAD ³	Robotics 1	Robotics 2	(Course to Martie)	
		A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]	
		13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]	
Cluste	er Knowledge and Skills (CTE standards)	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]	
de Number	KS Statement	N	N	Υ	Υ	N	N	N	N	N	[TSAY or N?]	
IQA01	Evaluate production operations for product and process quality.											
IQA02	Recommend and implement continuous improvement in manufacturing processes.											
IQA03	Coordinate work teams to create a product that meets quality assurance standards.											
IQA04	Employ project management processes using data and tools to deliver quality, value-added products.											
IQA05	Perform safety inspections and training to ensure a safe and healthy workplace.											
IQA06	Implement continuous improvement processes to maintain quality products.											
IQA07	Identify inspection processes that ensure products meet quality specifications.											

Skills-to-Course Matrix

Manufacturing

Westview High School Portland Community College Mar-19

Code Number

MNWP01

MNWP02

MNWP03

CCTC*

Manufacturing Cluster

Instructions: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names--secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are taught with intent and purpose, and are assessed in each course. Note: The optional Focus Area tabs below are included for those POSs that have a very specific industry fociusare using those skill sets for multiple options in a Progam of Study or if you want to use another set of industry validated standards.

Cluster Knowledge and Skills (CTE standards)

KS Statement

Understand manufacturing processes related to secondary wood products.

Use appropriate techniques in manufacturing of secondary wood products.

Understand characteristics and properties of materials used in manufacturing

r	Creative Design	Joh Creative Design	Naturacturing	Manufacturing 1		0.	0.	يز	a Roboric	52 (Course to Marke)
	Creati	Creati	Manufi	Manui	CAD	CAD2	CAD3	Robotics	Robot	Conte
	A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	urse Number]
	13003	13003	13003	13003	21107	21107	21107	21009	21009	CES Code]
	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	of Credits]
	N	N	Y	Υ	N	N	N	N	N	6AY or N?]

Skills-to-Course Matrix

Manufacturing

CCTC* Code Number

MNWL01

MNWL02

MNWL03

MNWL04

MNWL05

MNWL06

MNWL07

Westview High School Portland Community College Mar-19

Manufacturing Cluster

<u>Instructions</u>: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names-secondary and first year of post-secondary. 6) Enter school course numbers. 7) Ent NCES code for the course (secondary only). 8) Enter number of credits awarded. Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are taught with intent and purpose, and are assessed in each course Note: The optional Focus Area tabs below are included for those POSs that have a specific industry fociusare using those skill sets for multiple options in a Progam of or if you want to use another set of industry validated standards.

Cluster Knowledge and Skills (CTE standards)

preparation.
Understand basic welding metallurgy.

ear ours th igh cus	e 2 Name, etc., and replace with your POS course names of post-secondary. 6) Enter school course numbers. 7) Enter se (secondary only). 8) Enter number of credits awarded. 9) hat trigger the TSA for this POS. 10) Finally, check those t with intent and purpose, and are assessed in each course. s Area tabs below are included for those POSs that have a very re using those skill sets for multiple options in a Progam of Study other set of industry validated standards.	Creative Design 101	Creative Design No2	Manufacturing 1	Manufacturing 1	cao'	CAO2	CAO3	Robotics 1	Roborics 2	(Course to Marie)
		A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]
		13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]
te	r Knowledge and Skills (CTE standards)	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]
er	KS Statement	N	N	Υ	Υ	N	N	N	N	N	[TSAY or N?]
	Perform safety, health, inspection, and repair processes related to welding and thermal cutting. Perform entry level welding processes using a variety of welding technologies including shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten welding (GTAW).										
	Perform thermal cutting process using a variety technologies including manual oxyfuel gas cutting (OFC), mechanized oxyfuel gas cutting (track burner), plasma arc cutting (PAC), and air carbon arc cutting (CAC-A). Interpret drawing and welding symbols.										
	Perform advanced level welding processes using a variety of welding technologies including shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten welding (GTAW).										
	Perform operations related to shop equipment used in welding, layout, and part										