

Clarion County Career Center Crosswalk To PA Core Standards

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
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100	OCCUPATIONAL ORIENTATION AND SAFETY.			
101         102         103         104         105         106         107         108         109         110         111         112         113         114         115	<ul> <li>Prepare and mark time or job sheet, reports or records.</li> <li>Perform housekeeping duties daily.</li> <li>Follow verbal instructions to complete work assignments and rules.</li> <li>Follow written instructions to complete work assignments and rules.</li> <li>Demonstrate proper use and inspection of Personal Protection Equipment (PPE).</li> <li>Demonstrate proper work area operation.</li> <li>Demonstrate proper use of ventilation equipment.</li> <li>Discuss proper Hot Zone operation.</li> <li>Understand MSDS sheets and precautionary labeling.</li> <li>Demonstrate proper use and inspection of equipment used for each required welding and thermal cutting process.</li> <li>Display familiarity with industrial and OSHA safety standards.</li> <li>Demonstrate knowledge of arc welding safety procedures.</li> <li>Demonstrate emergency action plan (all inclusive).</li> </ul>	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5	<ul> <li>KEY IDEAS/DETAILS GRADES 9-10</li> <li>Standard CC.3.5.9-10.A.</li> <li>Cite specific textual evidence, etc</li> <li>Standard CC.3.5.9-10B</li> <li>Determine the central ideas or conclusions of a text; etc</li> <li>Standard CC.3.5.9-10.C</li> <li>Follow precisely a complex multistep procedure, etc</li> <li>KEY IDEAS/DETAILS</li> <li>GRADES 11-12</li> <li>Standard CC.3.5.11-12.A</li> <li>Cite specific textual evidence, etc</li> <li>Standard CC.3.5.11-12.B.</li> <li>Determine the central ideas or conclusions of a text; etc</li> <li>Standard CC.3.5.11-12.C.</li> <li>Follow precisely a complex multistep procedure, etc</li> <li>Standard CC.3.5.11-12.C.</li> <li>Follow precisely a complex multistep procedure, etc</li> <li>CRAFT &amp; STRUCTURE</li> <li>GRADES 9-10</li> <li>Standard CC.3.5.9-10.D.</li> <li>Determine the meaning of symbols, key terms, and other domain specific words</li> <li>Standard CC.3.5.9-10.E</li> </ul>	TEXT TYPES AND PURPOSE GRADES 9-10Standard CC.3.6.9-10.AWrite arguments focused on discipline specific content.Standard CC.3.6.9-10.BWrite informative or explanatory texts, including the narration of technical processes, etc.TEXT TYPES AND PURPOSE GRADES 11-12Standard CC.3.6.11-12.AWrite arguments focused on discipline specific content.Standard CC.3.6.11-12.BWrite informative or explanatory texts, including the narration of technical processes, etc.PURPOSE GRADES 11-12Standard CC.3.6.11-12.BWrite informative or explanatory texts, including the narration of technical processes, etc.PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10Standard CC.3.6.9-10.C Produce clear and coherent

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		Analyze the structure of the relationships among concepts in a text, etc. Standard CC.3.5.9-10.F Analyze the author's purpose in providing an explanation, describing a procedure CRAFT & STRUCTURE GRADES 11-12 Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text. Standard CC.3.5.11-12.F Analyze the author's purpose in providing an explanation, describing a procedure INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10 Standard CC.3.5.9-10.G. Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart). Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author's claim for solving a technical problem. Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc	writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products. PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6.11-12 C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11- 12.D.Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.11-	

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		INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding. RANGE OF READING GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J. By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	<ul> <li>12.E. Use technology, including the internet, to produce, publish, and update individual or shared writing products.</li> <li><b>RESEARCH</b></li> <li><b>GRADES 9-10</b></li> <li><b>Standard CC.3.6.9-10.F.</b></li> <li>Conduct short and more sustained research to answer a question or solve a problem.</li> <li><b>Standard CC.3.6.9-</b></li> <li><b>10.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</li> <li><b>Standard CC.3.6.9-10.H.</b></li> <li>Draw evidence from informational texts to support analysis, reflection, and research.</li> <li><b>RESEARCH</b></li> <li><b>GRADES 11-12</b></li> <li><b>Standard CC.3.6.11-12.F.</b></li> <li>Conduct short and more sustained research to answer a question or solve a problem.</li> <li><b>Standard CC.3.6.11-12.F.</b></li> <li>Conduct short and more sustained research to answer a question or solve a problem.</li> <li><b>Standard CC.3.6.11-12.F.</b></li> <li>Conduct short and more sustained research to answer a question or solve a problem.</li> <li><b>Standard CC.3.6.11-12.H.</b></li> <li><b>Standard CC.3.6.11-12.H.</b></li> </ul>	

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				Draw evidence from informational texts to support analysis, reflection, and research. <b>RANGE OF WRITING</b> <b>GRADES 9-12</b> <b>Standard CC.3.5.9-10.I</b> <b>AND Standard CC.3.5.11-</b> <b>12.I.</b> Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	
200	PRINCIPLES OF WELDING.				
201 202 203 204 205 206 207 208 209	Identify major types of metals (ferrous and non- ferrous) used in welding. Describe the basic principles of heat, expansion and contraction as it relates to metals. Select appropriate welding technique, equipment and supplies for a given metal or process. Describe the industry accepted welding codes, standards and procedures and their use. Identify various joint designs (joint geometry). Clean and prepare materials for welding and/or cutting. Demonstrate proper use of hand tools and power equipment. Demonstrate proper use of standard measuring and layout tools. Demonstrate proper use of one power equipment.	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5	KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc	TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.	

Revised February 2014

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with Unit and Task Numbers		e •	<b>Technical Subjects</b>	Mathematics
		INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10 Standard CC.3.5.9-10.G.	<b>Standard CC.3.6.11-12 C</b> Produce clear and coherent writingappropriate to task, purpose, and audience.	

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		Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).Standard CC.3.5.9-10.H.Assess the reasoning in a text to support the author's claim for solving a technical problem.Standard CC.3.5.9-10.I.Compare and contrast findings presented in a text to those from other sources, etcINTEGRATE KNOWLEDGE/ IDEASGRADES 11-12Standard CC.3.5.11-12.G.Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem.Standard CC.3.5.11-12.H.Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.Standard CC.3.5.11-12.I.Synthesize information from a range of sources into a coherent understanding.RANGE OF READING GRADES 9-10 and 11-12Standard CC.3.5.11-12.J.By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	Standard CC.3.6.9-10 D Standard CC.3.6.11- 12.D.Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.11- 12.E. Use technology, including the internet, to produce, publish, and update individual or shared writing products. RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.9- 10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research. RESEARCH GRADES 11-12	

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300	WELDING, DRAWING, AND WELD			Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.11- 12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research. RANGE OF WRITING GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11- 12.I. Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	
301 302	SYMBOL INTERPRETATION. Interpret basic elements of a drawing or sketch. Interpret welding symbol information.	<u>CLUSTER</u> :	KEY IDEAS/DETAILS	TEXT TYPES AND PURPOSE	
303	Fabricate parts from a drawing or sketch (class	Manufacturing Career Cluster	GRADES 9-10 Standard CC.3.5.9-10.A.	GRADES 9-10	
304	project). Identify structural metals used in the Metal	(Choose Standards)	Cite specific textual evidence,	Standard CC.3.6.9-10.A	
	Fabrication field.	1-2-3-4-5-6	etc	Write arguments focused	
305	Demonstrate knowledge of basic metric conversion.		Standard CC.3.5.9-10B	on discipline specific content.	
		PATHWAY(S) INCLUDE	Determine the central ideas or conclusions of a text; etc	Standard CC.3.6.9-10.B Write informative or	

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	Production Career Pathway (Select Standards) 1-2-3-4-5	Standard CC.3.5.9-10.CFollow precisely a complex multistep procedure, etcKEY IDEAS/DETAILSGRADES 11-12Standard CC.3.5.11-12ACite specific textual evidence, etcStandard CC.3.5.11-12.B.Determine the central ideas or conclusions of a text; etcStandard CC.3.5.11-12.C.Follow precisely a complex multistep procedure, etcCRAFT & STRUCTURE GRADES 9-10Standard CC.3.5.9-10.D.Determine the meaning of symbols, key terms, and other domain specific wordsStandard CC.3.5.9-10.EAnalyze the structure of the relationships among concepts in a text, etc.Standard CC.3.5.9-10.FAnalyze the author's purpose in providing an explanation, describing a procedureCRAFT & STRUCTURE GRADES 11-12Standard CC.3.5.11-12.D.Determine the meaning of symbols, key terms, and other domain specific words	explanatory texts, including the narration of technical processes, etc. <b>TEXT TYPES AND</b> <b>PURPOSE</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12.A</b> Write arguments focused on discipline specific content. <b>Standard CC.3.6.11-12.B</b> Write informative or explanatory texts, including the narration of technical processes, etc. <b>PRODUCTION &amp;</b> <b>DISTRIBUTION OF</b> <b>WRITING</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.C</b> Produce clear and coherent writingappropriate to task, purpose, and audience. <b>Standard CC.3.6.9-10 D</b> Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. <b>Standard CC.3.6.9-10.E</b> Use technology, including the internet, to produce, publish, and update	

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		Synthesize information from a range of sources into a coherent understanding. RANGE OF READING GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J. By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research. RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.11- 12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research. RANGE OF WRITING GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11- 12.I. Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	

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<b>400</b> 401 402 403	VISUAL EXAMINATION, INSPECTION, AND TESTING. Evaluate cut surfaces and edges of prepared base metal parts for testing. Identify and evaluate weld discontinuities as per accept/reject criteria. Demonstrate visual inspection and destructive and nondestructive techniques.	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5	KEY IDEAS/DETAILSGRADES 9-10Standard CC.3.5.9-10.A.Cite specific textual evidence, etcStandard CC.3.5.9-10BDetermine the central ideas or conclusions of a text; etcStandard CC.3.5.9-10.CFollow precisely a complex multistep procedure, etcKEY IDEAS/DETAILSGRADES 11-12Standard CC.3.5.11-12ACite specific textual evidence, etcStandard CC.3.5.11-12.B.	TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific	Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems. Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems. Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of
			Determine the central ideas or conclusions of a text; etc Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a text, etc.	content. Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc. PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D	arithmetic operations and apply to complex numbers.

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500	SHIELDED METAL ARC WELDING			and research. <b>RANGE OF WRITING</b> <b>GRADES 9-12</b> <b>Standard CC.3.5.9-10.I</b> <b>AND Standard CC.3.5.11-</b> <b>12.I.</b> Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	
501 502 503 504 505	(SMAW). Perform safety inspections of SMAW equipment and accessories. Make minor external repairs to SMAW equipment and accessories. Set up and operate SMAW equipment. Make fillet welds in all positions. Make groove welds in all positions.	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6	KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc Standard CC.3.5.9-10B	TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content.	
506 507	Pass performance test in all positions. Perform qualification test.	PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5	Determine the central ideas or conclusions of a text; etc Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A	Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND PURPOSE	
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Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
	Standards	Standard 3.5CRAFT & STRUCTURE GRADES 9-10Standard CC.3.5.9-10.D.Determine the meaning of symbols, key terms, and other domain specific wordsStandard CC.3.5.9-10.EAnalyze the structure of the relationships among concepts in a text, etc.Standard CC.3.5.9-10.FAnalyze the author's purpose in providing an explanation, describing a procedureCRAFT & STRUCTURE GRADES 11-12Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific wordsStandard CC.3.5.11-12.E.Analyze the structure of the relationships among concepts in a text.Standard CC.3.5.11-12.F.Analyze the structure of the relationships among concepts in a text.Standard CC.3.5.11-12.F.Analyze the author's purpose in providing an explanation, describing a procedureINTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10Standard CC.3.5.9-10.G.	Standard 3.6 processes, etc. PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products. PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6.11-12 C Produce clear and coherent writingappropriate to task, purpose, and audience.	
		Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).	Standard CC.3.6.9-10 D Standard CC.3.6.11- 12.D.Develop and strengthen writing as	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		<ul> <li>Standard CC.3.5.9-10.H.</li> <li>Assess the reasoning in a text to support the author's claim for solving a technical problem.</li> <li>Standard CC.3.5.9-10.I.</li> <li>Compare and contrast findings presented in a text to those from other sources, etc</li> <li>INTEGRATE KNOWLEDGE/ IDEAS</li> <li>GRADES 11-12</li> <li>Standard CC.3.5.11-12.G.</li> <li>Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem.</li> <li>Standard CC.3.5.11-12.H.</li> <li>Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</li> <li>Standard CC.3.5.11-12.I.</li> <li>Synthesize information from a range of sources into a coherent understanding.</li> <li>RANGE OF READING GRADES 9-10 and 11-12</li> <li>Standard CC.3.5.11-12.J.</li> <li>By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.</li> </ul>	needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.11- 12.E. Use technology, including the internet, to produce, publish, and update individual or shared writing products. <b>RESEARCH</b> <b>GRADES 9-10</b> Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.9- 10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research. <b>RESEARCH</b> <b>GRADES 11-12</b> Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve	

	Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
				a problem. Standard CC.3.6.11- 12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research. RANGE OF WRITING GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11- 12.I. Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	
600           601           602           603           604           605           606	GAS METAL ARC WELDING (GMAW). Perform safety inspections of GMAW equipment and accessories. Make minor external repairs to GMAW equipment and accessories. Set up and operate GMAW equipment. Make fillet welds in all positions. Make groove welds in all positions. Pass performance test.	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5	KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc KEY IDEAS/DETAILS	TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND	Standard 2.1.HS.F.1 Apply and extend the properties of exponents to solve problems with rational exponents. Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems. Standard 2.1.HS.F.4 Use units as a way to

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		GRADES 11-12Standard CC.3.5.11-12ACite specific textual evidence, etcStandard CC.3.5.11-12.B.Determine the central ideas or conclusions of a text; etcStandard CC.3.5.11-12.C.Follow precisely a complex multistep procedure, etcCRAFT & STRUCTURE GRADES 9-10Standard CC.3.5.9-10.D.Determine the meaning of symbols, key terms, and other domain specific wordsStandard CC.3.5.9-10.EAnalyze the structure of the relationships among concepts in a text, etc.Standard CC.3.5.9-10.FAnalyze the author's purpose in providing an explanation, describing a procedureCRAFT & STRUCTURE GRADES 11-12Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific wordsStandard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific wordsStandard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific wordsStandard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.Standard CC.3.5.11-12.E.	PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content. Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc. PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products. PRODUCTION & DISTRIBUTION OF	understand problems and to guide the solution of multistep problems. Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		Analyze the author's purpose in providing an explanation, describing a procedure INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10 Standard CC.3.5.9-10.G. Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart). Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author's claim for solving a technical problem. Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding. RANGE OF READING	WRITING GRADES 11-12 Standard CC.3.6.11-12 C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.9-10 D Standard CC.3.6.11- 12.D.Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.11- 12.E.Use technology, including the internet, to produce, publish, and update individual or shared writing products. RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.9- 10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.9-10.H.	

	Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
			GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J. By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	Draw evidence from informational texts to support analysis, reflection, and research. <b>RESEARCH</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12.F.</b> Conduct short and more sustained research to answer a question or solve a problem. <b>Standard CC.3.6.11-</b> <b>12.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.11-12.H.</b> Draw evidence from informational texts to support analysis, reflection, and research. <b>RANGE OF WRITING</b> <b>GRADES 9-12</b> <b>Standard CC.3.5.9-10.I</b> <b>AND Standard CC.3.5.11-</b> <b>12.I.</b> Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	
<b>700</b> 701	FLUX CORED ARC WELDING (FCAW).           Perform safety inspections of Flux Cored Arc	CLUSTER:	KEY IDEAS/DETAILS	TEXT TYPES AND	
702	equipment and accessories. Make minor external repairs to Flux Cored Arc equipment and accessories.	Manufacturing Career Cluster	GRADES 9-10 Standard CC.3.5.9-10.A.	PURPOSE GRADES 9-10	

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	Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
703 704 705 706	Set up and operate FCAW equipment. Make fillet welds in all positions. Pass performance test. Demonstrate a groove weld in all positions.	(Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5	Cite specific textual evidence, etc Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a text, etc. Standard CC.3.5.9-10.F Analyze the author's purpose in providing an explanation, describing a procedure CRAFT & STRUCTURE GRADES 11-12	Standard CC.3.6.9-10.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content. Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc. PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		•	Technical Subjects	Mathematics
		diverse formatsto solve a problem. Standard CC.3.5.11-12.H.	GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding. RANGE OF READING GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J. By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	sustained research to answer a question or solve a problem. Standard CC.3.6.9- 10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research. RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.11- 12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research. RANGE OF WRITING GRADES 9-12 Standard CC.3.5.11- 12.I.	

	Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
<b>800</b> 801 802 803 804 805 806 807 808	GAS TUNGSTEN ARC WELDING (GTAW). Perform safety inspections of GTAW equipment and accessories. Make minor external repairs to GTAW equipment and accessories. Set up and operate GTAW equipment. Make fillet welds, in all positions, on ferrous materials. Pass performance test on ferrous materials. Set up and operate GTAW on nonferrous materials. Make fillet welds on nonferrous materials. Pass performance test on nonferrous materials.	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5	KEY IDEAS/DETAILS         GRADES 9-10         Standard CC.3.5.9-10.A.         Cite specific textual evidence, etc         Standard CC.3.5.9-10B         Determine the central ideas or conclusions of a text; etc         Standard CC.3.5.9-10B         Determine the central ideas or conclusions of a text; etc         Standard CC.3.5.9-10.C         Follow precisely a complex multistep procedure, etc         KEY IDEAS/DETAILS         GRADES 11-12         Standard CC.3.5.11-12A         Cite specific textual evidence, etc         Standard CC.3.5.11-12.B.         Determine the central ideas or conclusions of a text; etc         Standard CC.3.5.11-12.C.	Standard 3.6 Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc. TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content. Standard CC.3.6.11-12.B Write informative or	
			Follow precisely a complex multistep procedure, etc CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words	explanatory texts, including the narration of technical processes, etc. <b>PRODUCTION &amp;</b> <b>DISTRIBUTION OF</b> <b>WRITING</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.C</b>	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		Standard 3.5Standard CC.3.5.9-10.EAnalyze the structure of the relationships among concepts in a text, etc.Standard CC.3.5.9-10.FAnalyze the author's purpose in providing an explanation, describing a procedureCRAFT & STRUCTURE GRADES 11-12Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific wordsStandard CC.3.5.11-12.E.Analyze the structure of the relationships among concepts in a text.Standard CC.3.5.11-12.FAnalyze the author's purpose in providing an explanation, describing a procedureINTEGRATE KNOWLEDGE/IDEASGRADES 9-10Standard CC.3.5.9-10.G.Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).Standard CC.3.5.9-10.H.Assess the reasoning in a text to support the author's claim for solving a technical problem.		
		Compare and contrast findings presented in a text to those from	a specific purpose and audience.	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		other sources, etc INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding. RANGE OF READING GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND Standard CC.3.5.9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	Standard CC.3.6.11- 12.E. Use technology, including the internet, to produce, publish, and update individual or shared writing products. <b>RESEARCH</b> <b>GRADES 9-10</b> Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.9- 10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research. <b>RESEARCH</b> <b>GRADES 11-12</b> Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.11- 12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard cc.3.6.11- 12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.	

	Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
900	MANUAL OXYFUEL GAS CUTTING (OFC).			Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research. RANGE OF WRITING GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11- 12.I. Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	
901 902 903 904 905 906 907 908	<ul> <li>Perform safety inspections of OFC equipment and accessories.</li> <li>Make minor external repairs to OFC equipment and accessories.</li> <li>Set up for manual OFC operations on steel.</li> <li>Operate manual OFC equipment.</li> <li>Perform straight cutting operations on steel.</li> <li>Perform shape cutting operations on steel.</li> <li>Perform bevel cutting operations on steel.</li> <li>Perform piercing operations on steel.</li> </ul>	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5	KEY IDEAS/DETAILSGRADES 9-10Standard CC.3.5.9-10.A.Cite specific textual evidence, etcStandard CC.3.5.9-10BDetermine the central ideas or conclusions of a text; etcStandard CC.3.5.9-10.CFollow precisely a complex multistep procedure, etcKEY IDEAS/DETAILSGRADES 11-12Standard CC.3.5.11-12ACite specific textual evidence, etcStandard CC.3.5.11-12.B.Determine the central ideas or conclusions of a text; etc	TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.	Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems. Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems. Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex

Standard CC.3.5.11-12.C.       Standard CC.3.6.11-12.B       numbers.         Follow precisely a complex multistep procedure, etc       Standard CC.3.6.11-12.B       Write informative or explanatory texts. including the narration of technical processes. etc.       numbers.         CRAFT & STRUCTURE GRADES 9-10       PRODUCTION & Distribution of technical processes. etc.         Standard CC.3.5.9-10.F       Analyze the structure of the relationships among concepts in a text. etc.       Standard CC.3.6.9-10.C       Produce clear and coherent writingappropriate to task, purpose, and audience.         CRAFT & STRUCTURE GRADES 11-12       Standard CC.3.5.10 D       Develop and strengthen writing an exeplanation, describing a procedure       Standard CC.3.5.11-12.D approach, focusing on addressing what is most significant for a specific purpose and audience.         Standard CC.3.5.11-12.F. Analyze the structure of the relationships among concepts in a text.       Standard CC.3.5.11-12.F. Analyze the structure of the relationships among concepts in a text.       Standard CC.3.5.11-12.F. Analyze the structure of the relationships among concepts in a text.       Standard CC.3.5.11-12.F. Analyze the structure of the relationships among concepts in a text.       PRODUCTION & Distribution of shared writing.	Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
providing an explanation, describing a procedureWKITING GRADES 11-12INTEGRATE KNOWLEDGE/ IDEASStandard CC.3.6.11-12 CProduce clear and coherent writingappropriate to task, purpose, and audience.			<ul> <li>Follow precisely a complex multistep procedure, etc</li> <li>CRAFT &amp; STRUCTURE</li> <li>GRADES 9-10</li> <li>Standard CC.3.5.9-10.D.</li> <li>Determine the meaning of symbols, key terms, and other domain specific words</li> <li>Standard CC.3.5.9-10.E</li> <li>Analyze the structure of the relationships among concepts in a text, etc.</li> <li>Standard CC.3.5.9-10.F</li> <li>Analyze the author's purpose in providing an explanation, describing a procedure</li> <li>CRAFT &amp; STRUCTURE</li> <li>GRADES 11-12</li> <li>Standard CC.3.5.11-12.D.</li> <li>Determine the meaning of symbols, key terms, and other domain specific words</li> <li>Standard CC.3.5.11-12.F.</li> <li>Analyze the structure of the relationships among concepts in a text.</li> <li>Standard CC.3.5.11-12.F</li> <li>Analyze the author's purpose in providing an explanation, describing a procedure</li> <li>INTEGRATE KNOWLEDGE/IDEAS</li> <li>GRADES 9-10</li> </ul>	Write informative or explanatory texts, including the narration of technical processes, etc. PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products. PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6.11-12 C Produce clear and coherent writingappropriate to task,	numbers.

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).Standard CC.3.5.9-10.H.Assess the reasoning in a text to support the author's claim for solving a technical problem.Standard CC.3.5.9-10.I.Compare and contrast findings presented in a text to those from other sources, etcINTEGRATE KNOWLEDGE/ IDEASGRADES 11-12Standard CC.3.5.11-12.G.Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem.Standard CC.3.5.11-12.H.Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.Standard CC.3.5.11-12.I.Synthesize information from a range of sources into a coherent understanding.RANGE OF READING GRADES 9-10 and 11-12Standard CC.3.5.11-12.J.By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	Standard CC.3.6.9-10 D Standard CC.3.6.11- 12.D.Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.11- 12.E. Use technology, including the internet, to produce, publish, and update individual or shared writing products. RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.9- 10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research. RESEARCH GRADES 11-12	

	Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
				Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.11- 12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research. RANGE OF WRITING GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11- 12.I. Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	
1000	MECHANIZED OXYFUEL GAS CUTTING (OFC).				
1001 1002 1003 1004 1005	Perform safety inspections of mechanized OFC equipment and accessories. Make minor external repairs to mechanized OFC equipment and accessories. Set up and operate OFC equipment on steel. Perform straight cutting operations on steel. Perform bevel cutting operations on steel.	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE	KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc	TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
	Production Career Pathway (Select Standards) 1-2-3-4-5	Standard CC.3.5.9-10.CFollow precisely a complex multistep procedure, etcKEY IDEAS/DETAILSGRADES 11-12Standard CC.3.5.11-12ACite specific textual evidence, etcStandard CC.3.5.11-12.B.Determine the central ideas or conclusions of a text; etcStandard CC.3.5.11-12.C.Follow precisely a complex multistep procedure, etcCRAFT & STRUCTURE GRADES 9-10Standard CC.3.5.9-10.D.Determine the meaning of symbols, key terms, and other domain specific wordsStandard CC.3.5.9-10.EAnalyze the structure of the relationships among concepts in a text, etc.Standard CC.3.5.9-10.FAnalyze the author's purpose in providing an explanation, describing a procedureCRAFT & STRUCTURE GRADES 11-12Standard CC.3.5.11-12.D.Determine the meaning of symbols, key terms, and other domain specific words	Write informative or explanatory texts, including the narration of technical processes, etc. <b>TEXT TYPES AND</b> <b>PURPOSE</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12.A</b> Write arguments focused on discipline specific content. <b>Standard CC.3.6.11-12.B</b> Write informative or explanatory texts, including the narration of technical processes, etc. <b>PRODUCTION &amp;</b> <b>DISTRIBUTION OF</b> <b>WRITING</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.C</b> Produce clear and coherent writingappropriate to task, purpose, and audience. <b>Standard CC.3.6.9-10 D</b> Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. <b>Standard CC.3.6.9-10.E</b> Use technology, including the internet, to produce,	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		Analyze the structure of the relationships among concepts in a text. Standard CC.3.5.11-12.F Analyze the author's purpose in providing an explanation, describing a procedure INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10 Standard CC.3.5.9-10.G. Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart). Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author's claim for solving a technical problem. Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I.	publish, and update individual or shared writing products. PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6.11-12 C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.9-10 D Standard CC.3.6.9-10 J Standard CC.3.6.11- 12.D.Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.11- 12.E.Use technology, including the internet, to produce, publish, and update individual or shared writing products. RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.9- 10.G.Gather relevant	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		Synthesize information from a range of sources into a coherent understanding. RANGE OF READING GRADES 9-10 and 11-12 Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J. By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.9-10.H.</b> Draw evidence from informational texts to support analysis, reflection, and research. <b>RESEARCH</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12.F.</b> Conduct short and more sustained research to answer a question or solve a problem. <b>Standard CC.3.6.11-</b> <b>12.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.11-12.H.</b> Draw evidence from informational texts to support analysis, reflection, and research. <b>RANGE OF WRITING</b> <b>GRADES 9-12</b> <b>Standard CC.3.5.9-10.I</b> <b>AND Standard CC.3.5.11-</b> <b>12.I.</b> Write routinely over extended time frames and shorter time frames for a	

	Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
<b>1100</b> 1101 1102 1103 1104	<ul> <li>MANUAL PLASMA ARC CUTTING (PAC).</li> <li>Perform safety inspections of PAC equipment and accessories.</li> <li>Make minor external repairs to PAC equipment and accessories.</li> <li>Set up and operate manual PAC operations on ferrous and nonferrous materials.</li> <li>Perform shape cutting operations on ferrous and nonferrous materials.</li> </ul>		Standard 3.5KEY IDEAS/DETAILSGRADES 9-10Standard CC.3.5.9-10.A.Cite specific textual evidence, etcStandard CC.3.5.9-10BDetermine the central ideas or conclusions of a text; etcStandard CC.3.5.9-10BDetermine the central ideas or conclusions of a text; etcStandard CC.3.5.9-10.CFollow precisely a complex multistep procedure, etcKEY IDEAS/DETAILSGRADES 11-12Standard CC.3.5.11-12.ACite specific textual evidence, etcStandard CC.3.5.11-12.B.Determine the central ideas or conclusions of a text; etcStandard CC.3.5.11-12.B.Determine the central ideas or conclusions of a text; etcStandard CC.3.5.11-12.C.Follow precisely a complex multistep procedure, etcCRAFT & STRUCTURE	Technical Subjects Standard 3.6 TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content. Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.	
			GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words Standard CC.3.5.9-10.E Analyze the structure of the relationships among concepts in a text, etc. Standard CC.3.5.9-10.F	PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Develop and strengthen	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		Analyze the author's purpose in providing an explanation, describing a procedure CRAFT & STRUCTURE GRADES 11-12 Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text. Standard CC.3.5.11-12.F Analyze the author's purpose in providing an explanation, describing a procedure INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10 Standard CC.3.5.9-10.G. Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart). Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author's claim for solving a technical problem. Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12	writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. <b>Standard CC.3.6.9-10.E</b> Use technology, including the internet, to produce, publish, and update individual or shared writing products. <b>PRODUCTION &amp;</b> <b>DISTRIBUTION OF</b> <b>WRITING</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12 C</b> Produce clear and coherent writingappropriate to task, purpose, and audience. <b>Standard CC.3.6.9-10 D</b> <b>Standard CC.3.6.11-12.D</b> <b>Standard CC.3.6.11-13.D</b> <b>Standard CC.3</b>	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		<ul> <li>Standard CC.3.5.11-12.G.</li> <li>Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem.</li> <li>Standard CC.3.5.11-12.H.</li> <li>Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</li> <li>Standard CC.3.5.11-12.I.</li> <li>Synthesize information from a range of sources into a coherent understanding.</li> <li>RANGE OF READING GRADES 9-10 and 11-12</li> <li>Standard CC.3.5.9-10.J AND Standard CC.3.5.11-12.J.</li> <li>By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.</li> </ul>	writing products. <b>RESEARCH</b> <b>GRADES 9-10</b> <b>Standard CC.3.6.9-10.F.</b> Conduct short and more sustained research to answer a question or solve a problem. <b>Standard CC.3.6.9-</b> <b>10.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.9-10.H.</b> Draw evidence from informational texts to support analysis, reflection, and research. <b>RESEARCH</b> <b>GRADES 11-12</b> <b>Standard CC.3.6.11-12.F.</b> Conduct short and more sustained research to answer a question or solve a problem. <b>Standard CC.3.6.11-</b> <b>12.G.</b> Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. <b>Standard CC.3.6.11-12.H.</b> Draw evidence from informational texts to support analysis, reflection, and research.	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
1200 MANUAL AIR CARBON ARC CUTTING			RANGE OF WRITING GRADES 9-12 Standard CC.3.5.9-10.I AND Standard CC.3.5.11- 12.I. Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.	
<ul> <li>1206 Infection infection of CAC-A equipment and accessories.</li> <li>1201 Perform safety inspections of CAC-A equipment and accessories.</li> <li>1202 Make minor external repairs to CAC-A equipment and accessories.</li> <li>1203 Set up and operate manual CAC-A gouging and cutting operations on steel.</li> <li>1204 Perform gouging and scarfing operations, to remove base and weld metal, on steel.</li> </ul>	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5	KEY IDEAS/DETAILSGRADES 9-10Standard CC.3.5.9-10.A.Cite specific textual evidence, etcStandard CC.3.5.9-10BDetermine the central ideas or conclusions of a text; etcStandard CC.3.5.9-10CFollow precisely a complex multistep procedure, etcKEY IDEAS/DETAILSGRADES 11-12Standard CC.3.5.11-12ACite specific textual evidence, etcStandard CC.3.5.11-12.B.Determine the central ideas or conclusions of a text; etcStandard CC.3.5.11-12.C.Follow precisely a complex multistep procedure, etcStandard CC.3.5.11-12.C.Follow precisely a complex multistep procedure, etcCRAFT & STRUCTURE	TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc. TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content. Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		GRADES 9-10Standard CC.3.5.9-10.D.Determine the meaning ofsymbols, key terms, and otherdomain specific wordsStandard CC.3.5.9-10.EAnalyze the structure of therelationships among concepts in atext, etc.Standard CC.3.5.9-10.FAnalyze the author's purpose inproviding an explanation,describing a procedureCRAFT & STRUCTUREGRADES 11-12Standard CC.3.5.11-12.D.Determine the meaning ofsymbols, key terms, and otherdomain specific wordsStandard CC.3.5.11-12.F.Analyze the structure of therelationships among concepts in atext.Standard CC.3.5.11-12.FAnalyze the author's purpose inproviding an explanation,describing a procedureINTEGRATE KNOWLEDGE/DEASGRADES 9-10Standard CC.3.5.9-10.G.Translate quantitative or technicalinformation expressed in a text intovisual form (e.g. a table or chart).Standard CC.3.5.9-10.H.	PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products. PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12 Standard CC.3.6.11-12 C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11- 12.D.Develop and strengthen writing as needed by planning,	

Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
		Assess the reasoning in a text to support the author's claim for solving a technical problem. Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding. RANGE OF READING GRADES 9-10 and 11-12 Standard CC.3.5.11-12.J. By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.	or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.11- 12.E.Use technology, including the internet, to produce, publish, and update individual or shared writing products. RESEARCH GRADES 9-10 Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem. Standard CC.3.6.9- 10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation. Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research. RESEARCH GRADES 11-12 Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem.	

	Secondary Competency Task Grid with Unit and Task Numbers	Common Career Technical Core Standards	Pennsylvania Core Standards for Reading for Technical Subjects Standard 3.5	Pennsylvania Core Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.1
				<ul> <li>12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</li> <li>Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.</li> <li>RANGE OF WRITING GRADES 9-12</li> <li>Standard CC.3.5.9-10.I AND Standard CC.3.5.11- 12.I.</li> <li>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiencesetc.</li> </ul>	
<b>1300</b> 1301	BRAZING AND SOLDERING. Set up and operate silver oxyfuel brazing and silver				
1301	soldering equipment. Perform brazing and silver soldering operations.	CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5			