



**Welding Technology/Welder, Classification of Instructional Program (CIP) 48.0508
Units of Instruction and Task Grid Linked to Pennsylvania 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 Complete time or job sheet, reports, or records. 102 Perform housekeeping duties daily. 103 Follow verbal instructions to complete work assignments and rules. 104 Follow written instructions to complete work assignments and rules. 105 Inspect and use Personal Protection Equipment (PPE) daily. 106 Maintain proper organization and operation of work area 107 Demonstrate proper use of ventilation equipment. 108 Discuss proper Hot Work operation. 109 Demonstrate knowledge of proper work actions for working in confined spaces. 110 Identify Safety Data Sheets (SDS) and precautionary labeling. 111 Inspect welding and thermal cutting equipment for safe operation. 112 Display familiarity with industrial and OSHA safety standards. 113 Identify oxyfuel safety procedures. 114 Identify arc welding/cutting safety procedures. | 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.... Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, 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 CC.3.6.11-12.B Write informative or explanatory texts, including | |

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| <p>115 Follow emergency action plan (all inclusive).</p> | | <p>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.3.5.11-12.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.</p> | <p>the narration of technical processes, etc. PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C Produce clear and coherent writing...appropriate 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 writing...appropriate 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</p> | |
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| | | <p>Compare and contrast findings presented in a text to those from other sources, etc....</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12 Standard CC.3.5.11-12.G. Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>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.</p> | <p>a specific purpose and audience.</p> <p>Standard CC.3.6.11-12.E.Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>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.</p> <p>Standard CC.3.6.9-10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>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.</p> <p>Standard CC.3.6.11-12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts to</p> | |
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| | | | <p>support analysis, reflection, and research.</p> <p>RANGE OF WRITING GRADES 9-12</p> <p>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> | |
| 200 PRINCIPLES OF WELDING. | | | | |
| <p>201 Identify major types of metals (ferrous and nonferrous) used in welding.</p> <p>202 Describe the basic principles of heat, expansion, and contraction as it relates to metals.</p> <p>203 Select appropriate welding technique, equipment and supplies for a given metal or process.</p> <p>204 Describe the industry accepted welding codes, standards and procedures and their use.</p> <p>205 Identify various joint designs (joint geometry).</p> <p>206 Clean and prepare materials for welding and/or cutting.</p> <p>207 Demonstrate proper use of hand tools.</p> <p>208 Demonstrate proper use of standard measuring and layout tools.</p> <p>209 Demonstrate proper use of power equipment.</p> | <p><u>CLUSTER:</u> Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6</p> <p>PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5</p> | <p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc....</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc....</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D.</p> | <p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> | |

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| 300 | WELDING, DRAWING, AND WELD SYMBOL INTERPRETATION. | | | |
| 301 302 303 304 305 | Interpret basic elements of a drawing or sketch. Interpret welding symbol information. Fabricate parts from a drawing or sketch (class project). Identify structural materials used in the metal fabrication field. Perform basic metric conversion. | 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.... 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... | 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. PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C |

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

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| | | | <p>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> | | |
| 500 | SHIELDED METAL ARC WELDING (SMAW). | | | | |
| 501 | Perform safety inspections of SMAW equipment and accessories. | <p>CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6</p> <p>PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5</p> | <p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc....</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc....</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E</p> | <p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C</p> | |
| 502 | Make minor external repairs to SMAW equipment and accessories. | | | | |
| 503 | Set up and operate SMAW equipment. | | | | |
| 504 | Make fillet welds in all positions. | | | | |
| 505 | Make groove welds in all positions. | | | | |
| 506 | Pass performance test in all positions. | | | | |
| 507 | Perform qualification test. | | | | |

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| | | <p>Analyze the structure of the relationships among concepts in a text, etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc....</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 11-12</p> <p>Standard CC.3.5.11-12.G.</p> | <p>Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>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.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING</p> <p>GRADES 11-12</p> <p>Standard CC.3.6.11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D</p> <p>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.</p> <p>Standard CC.3.6.11-12.E.Use technology, including the internet, to produce, publish, and</p> | |
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| | | <p>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12</p> <p>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.</p> | <p>update individual or shared writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.9-10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RESEARCH GRADES 11-12</p> <p>Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.11-12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RANGE OF WRITING GRADES 9-12</p> | |
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| | | | <p>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> | | |
| 600 | GAS METAL ARC WELDING (GMAW). | | | | |
| 601 | Perform safety inspections of GMAW equipment and accessories. | <p>CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6</p> <p>PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5</p> | <p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc....</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc....</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E</p> | <p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C</p> | <p>Standard 2.1.HS.F.1 Apply and extend the properties of exponents to solve problems with rational exponents.</p> <p>Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> |
| 602 | Make minor external repairs to GMAW equipment and accessories. | | | | |
| 603 | Set up and operate GMAW equipment. | | | | |
| 604 | Make fillet welds in all positions. | | | | |
| 605 | Make groove welds in all positions. | | | | |
| 606 | Pass performance test. | | | | |

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| | | <p>Analyze the structure of the relationships among concepts in a text, etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc....</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12</p> <p>Standard CC.3.5.11-12.G.</p> | <p>Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>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.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12</p> <p>Standard CC.3.6.11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D</p> <p>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.</p> <p>Standard CC.3.6.11-12.E.Use technology, including the internet, to produce, publish, and</p> | |
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| | | <p>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12</p> <p>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.</p> | <p>update individual or shared writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.9-10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RESEARCH GRADES 11-12</p> <p>Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.11-12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RANGE OF WRITING GRADES 9-12</p> | |
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| | | | <p>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> | | |
| 700 | FLUX CORED ARC WELDING (FCAW). | | | | |
| 701 | Perform safety inspections of Flux Cored Arc equipment and accessories. | <p>CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6</p> <p>PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5</p> | <p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc....</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc....</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E</p> | <p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C</p> | |
| 702 | Make minor external repairs to Flux Cored Arc equipment and accessories. | | | | |
| 703 | Set up and operate FCAW equipment. | | | | |
| 704 | Make fillet welds in all positions. | | | | |
| 705 | Pass performance test. | | | | |
| 706 | Demonstrate a groove weld in all positions. | | | | |

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| | | <p>Analyze the structure of the relationships among concepts in a text, etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc....</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 11-12</p> <p>Standard CC.3.5.11-12.G.</p> | <p>Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>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.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING</p> <p>GRADES 11-12</p> <p>Standard CC.3.6.11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D</p> <p>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.</p> <p>Standard CC.3.6.11-12.E.Use technology, including the internet, to produce, publish, and</p> | |
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| | | <p>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12</p> <p>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.</p> | <p>update individual or shared writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.9-10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RESEARCH GRADES 11-12</p> <p>Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.11-12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RANGE OF WRITING GRADES 9-12</p> | |
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| | | | <p>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> | | |
| 800 | GAS TUNGSTEN ARC WELDING (GTAW). | | | | |
| 801 | Perform safety inspections of GTAW equipment and accessories. | <p>CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6</p> <p>PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5</p> | <p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc....</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc....</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E</p> | <p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C</p> | <p>Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> |
| 802 | Make minor external repairs to GTAW equipment and accessories. | | | | |
| 803 | Set up and operate GTAW equipment. | | | | |
| 804 | Make fillet welds, in all positions, on ferrous materials. | | | | |
| 805 | Pass performance test on ferrous materials. | | | | |
| 806 | Set up and operate GTAW on nonferrous materials. | | | | |
| 807 | Make fillet welds on nonferrous materials. | | | | |
| 808 | Pass performance test on nonferrous materials. | | | | |

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| | | <p>Analyze the structure of the relationships among concepts in a text, etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc....</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 11-12</p> <p>Standard CC.3.5.11-12.G.</p> | <p>Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>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.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING</p> <p>GRADES 11-12</p> <p>Standard CC.3.6.11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D</p> <p>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.</p> <p>Standard CC.3.6.11-12.E.Use technology, including the internet, to produce, publish, and</p> | |
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| | | <p>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12</p> <p>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.</p> | <p>update individual or shared writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.9-10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RESEARCH GRADES 11-12</p> <p>Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.11-12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RANGE OF WRITING GRADES 9-12</p> | |
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| | | | <p>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> | | |
| 900 | MANUAL OXYFUEL GAS CUTTING (OFC). | | | | |
| 901 | Perform safety inspections of OFC equipment and accessories. | <p>CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6</p> <p>PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5</p> | <p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc....</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc....</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E</p> | <p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C</p> | <p>Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</p> <p>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</p> <p>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</p> |
| 902 | Make minor external repairs to OFC equipment and accessories. | | | | |
| 903 | Set up for manual OFC operations on steel. | | | | |
| 904 | Operate manual OFC equipment. | | | | |
| 905 | Perform straight cutting operations on steel. | | | | |
| 906 | Perform shape cutting operations on steel. | | | | |
| 907 | Perform bevel cutting operations on steel. | | | | |
| 908 | Perform piercing operations on steel. | | | | |

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| | | <p>Analyze the structure of the relationships among concepts in a text, etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc....</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 11-12</p> <p>Standard CC.3.5.11-12.G.</p> | <p>Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>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.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING</p> <p>GRADES 11-12</p> <p>Standard CC.3.6.11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D</p> <p>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.</p> <p>Standard CC.3.6.11-12.E.Use technology, including the internet, to produce, publish, and</p> | |
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| | | <p>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12</p> <p>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.</p> | <p>update individual or shared writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.9-10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RESEARCH GRADES 11-12</p> <p>Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.11-12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RANGE OF WRITING GRADES 9-12</p> | |
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| | | | <p>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> | |
| 1000 MECHANIZED OXYFUEL GAS CUTTING (OFC). | | | | |
| <p>1001 Perform safety inspections of mechanized OFC equipment and accessories.</p> <p>1002 Make minor external repairs to mechanized OFC equipment and accessories.</p> <p>1003 Set up and operate OFC equipment on steel.</p> <p>1004 Perform straight cutting operations on steel.</p> <p>1005 Perform bevel cutting operations on steel.</p> | <p>CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6</p> <p>PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5</p> | <p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc....</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc....</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E</p> | <p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C</p> | |

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| | | <p>Analyze the structure of the relationships among concepts in a text, etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc....</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 11-12</p> <p>Standard CC.3.5.11-12.G.</p> | <p>Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>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.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING</p> <p>GRADES 11-12</p> <p>Standard CC.3.6.11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D</p> <p>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.</p> <p>Standard CC.3.6.11-12.E.Use technology, including the internet, to produce, publish, and</p> | |
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| | | <p>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12</p> <p>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.</p> | <p>update individual or shared writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.9-10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RESEARCH GRADES 11-12</p> <p>Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.11-12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RANGE OF WRITING GRADES 9-12</p> | |
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| | | | <p>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> | | |
| 1100 | MANUAL PLASMA ARC CUTTING (PAC). | | | | |
| 1101 | Perform safety inspections of PAC equipment and accessories. | <p>CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6</p> <p>PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5</p> | <p>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.... 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</p> | <p>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. PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C</p> | |
| 1102 | Make minor external repairs to PAC equipment and accessories. | | | | |
| 1103 | Set up and operate manual PAC operations on ferrous and nonferrous materials. | | | | |
| 1104 | Perform shape cutting operations on ferrous and nonferrous materials. | | | | |
| 1105 | Perform gouging and scarfing operations, to remove base and weld metal, on steel. | | | | |

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| | | <p>Analyze the structure of the relationships among concepts in a text, etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc....</p> <p>INTEGRATE KNOWLEDGE/ IDEAS GRADES 11-12</p> <p>Standard CC.3.5.11-12.G.</p> | <p>Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>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.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 11-12</p> <p>Standard CC.3.6.11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D</p> <p>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.</p> <p>Standard CC.3.6.11-12.E.Use technology, including the internet, to produce, publish, and</p> | |
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| | | <p>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12</p> <p>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.</p> | <p>update individual or shared writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.9-10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RESEARCH GRADES 11-12</p> <p>Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.11-12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RANGE OF WRITING GRADES 9-12</p> | |
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| | | | <p>Standard CC.3.5.9-10.I AND Standard CC.3.5.11-12.I.</p> <p>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</p> | |
| 1200 MANUAL AIR CARBON ARC CUTTING (CAC-A). | | | | |
| <p>1201 Perform safety inspections of CAC-A equipment and accessories.</p> <p>1202 Make minor external repairs to CAC-A equipment and accessories.</p> <p>1203 Set up and operate manual CAC-A gouging and cutting operations on steel.</p> <p>1204 Perform gouging and scarfing operations, to remove base and weld metal, on steel.</p> | <p>CLUSTER: Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6</p> <p>PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5</p> | <p>KEY IDEAS/DETAILS GRADES 9-10 Standard CC.3.5.9-10.A. Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.9-10B Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.9-10.C Follow precisely a complex multistep procedure, etc....</p> <p>KEY IDEAS/DETAILS GRADES 11-12 Standard CC.3.5.11-12A Cite specific textual evidence, etc....</p> <p>Standard CC.3.5.11-12.B. Determine the central ideas or conclusions of a text; etc....</p> <p>Standard CC.3.5.11-12.C. Follow precisely a complex multistep procedure, etc....</p> <p>CRAFT & STRUCTURE GRADES 9-10 Standard CC.3.5.9-10.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.9-10.E</p> | <p>TEXT TYPES AND PURPOSE GRADES 9-10 Standard CC.3.6.9-10.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.9-10.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>TEXT TYPES AND PURPOSE GRADES 11-12 Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.</p> <p>Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10 Standard CC.3.6.9-10.C</p> | |

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| | | <p>Analyze the structure of the relationships among concepts in a text, etc.</p> <p>Standard CC.3.5.9-10.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>CRAFT & STRUCTURE GRADES 11-12</p> <p>Standard CC.3.5.11-12.D. Determine the meaning of symbols, key terms, and other domain specific words...</p> <p>Standard CC.3.5.11-12.E. Analyze the structure of the relationships among concepts in a text.</p> <p>Standard CC.3.5.11-12.F Analyze the author’s purpose in providing an explanation, describing a procedure...</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 9-10</p> <p>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).</p> <p>Standard CC.3.5.9-10.H. Assess the reasoning in a text to support the author’s claim for solving a technical problem.</p> <p>Standard CC.3.5.9-10.I. Compare and contrast findings presented in a text to those from other sources, etc....</p> <p>INTEGRATE KNOWLEDGE/ IDEAS</p> <p>GRADES 11-12</p> <p>Standard CC.3.5.11-12.G.</p> | <p>Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>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.</p> <p>Standard CC.3.6.9-10.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.</p> <p>PRODUCTION & DISTRIBUTION OF WRITING</p> <p>GRADES 11-12</p> <p>Standard CC.3.6.11-12 C Produce clear and coherent writing...appropriate to task, purpose, and audience.</p> <p>Standard CC.3.6.9-10 D</p> <p>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.</p> <p>Standard CC.3.6.11-12.E.Use technology, including the internet, to produce, publish, and</p> | |
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| | | <p>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</p> <p>Standard CC.3.5.11-12.H. Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</p> <p>Standard CC.3.5.11-12.I. Synthesize information from a range of sources into a coherent understanding.</p> <p>RANGE OF READING GRADES 9-10 and 11-12</p> <p>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.</p> | <p>update individual or shared writing products.</p> <p>RESEARCH GRADES 9-10</p> <p>Standard CC.3.6.9-10.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.9-10.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.9-10.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RESEARCH GRADES 11-12</p> <p>Standard CC.3.6.11-12.F. Conduct short and more sustained research to answer a question or solve a problem.</p> <p>Standard CC.3.6.11-12.G.Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</p> <p>Standard CC.3.6.11-12.H. Draw evidence from informational texts to support analysis, reflection, and research.</p> <p>RANGE OF WRITING GRADES 9-12</p> | |
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| | | | 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 audiences...etc. | |
| 1300 RESERVED. | | | | |
| 1301 RESERVED 1302 RESERVED | <u>CLUSTER:</u> Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6 PATHWAY(S) INCLUDE Production Career Pathway (Select Standards) 1-2-3-4-5 | | | |