## Secondary Competency Task Grid with Unit and Task Numbers

<table>
<thead>
<tr>
<th>Unit</th>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>101</td>
<td>Inspect and use personal protective equipment.</td>
</tr>
<tr>
<td></td>
<td>102</td>
<td>Identify causes of job site accidents.</td>
</tr>
<tr>
<td></td>
<td>103</td>
<td>RESERVE</td>
</tr>
<tr>
<td></td>
<td>104</td>
<td>RESERVE</td>
</tr>
<tr>
<td></td>
<td>105</td>
<td>Properly don fall protection.</td>
</tr>
<tr>
<td></td>
<td>106</td>
<td>Identify four classes of fire extinguishers.</td>
</tr>
<tr>
<td></td>
<td>107</td>
<td>Confirm circuits are de-energized before working on them.</td>
</tr>
<tr>
<td></td>
<td>108</td>
<td>Perform lockout/tagout.</td>
</tr>
<tr>
<td></td>
<td>109</td>
<td>Inspect and use ladders.</td>
</tr>
<tr>
<td></td>
<td>110</td>
<td>Complete jobsite hazard analysis form.</td>
</tr>
<tr>
<td></td>
<td>111</td>
<td>Identify Arc-flash hazards and protection.</td>
</tr>
</tbody>
</table>

### CAREER CLUSTER
- **Manufacturing Career Cluster**
- (Choose Standards)
- 1-2-3-4-5-6-7
- **CAREER PATHWAYS**
- **INCLUDE:**
  - Maintenance,
  - Installation and Repair
- Career Pathway
- (Choose Standards)
- 1-2-3-4-5-6

### KEY IDEAS/DETAILS
- **GRADES 9-10-11-12**
- Standard CC.3.5.9-10 A
- Standard CC.3.5.11-12 A
- Cite specific textual evidence, etc.
- Standard CC.3.5.9-10 B
- Standard CC.3.5.11-12 B
- Determine the central ideas or conclusions of a text; etc.
- Standard CC.3.5.9-10 C
- Standard CC.3.5.11-12 C
- Follow precisely a complex multistep procedure, etc.

### CRAFT & STRUCTURE
- **GRADES 9-10-11-12**
- Standard CC.3.5.9-10 D
- Standard CC.3.5.11-12 D
- Determine the meaning of symbols, key terms, and other domain specific words.
- Standard CC.3.5.9-10 E
- Standard CC.3.5.11-12 E
- Analyze the structure of the relationships among concepts in a text, etc.

### TEXT TYPES AND PURPOSE
- **GRADES 9-10-11-12**
- Standard CC.3.6.9-10 A
- Standard CC.3.6.11-12 A
- Write arguments focused on discipline specific content.
- Standard CC.3.6.9-10 B
- Standard CC.3.6.11-12 B
- Write informative or explanatory texts, including the narration of technical processes, etc.

### PRODUCTION & DISTRIBUTION OF WRITING
- **GRADES 9-10-11-12**
- Standard CC.3.6.9-10 C
- 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
<table>
<thead>
<tr>
<th>Standard CC.3.5.9-10.F</th>
<th>planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard CC.3.5.11-12.F</td>
<td>Use technology, including the internet, to produce, publish, and update individual or shared writing products.</td>
</tr>
<tr>
<td>An <strong>Standard CC.3.5.9-10.</strong></td>
<td><strong>G</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td><strong>Standard CC.3.5.11-12.</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td><strong>Standard CC.3.5.9-10.G</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td><strong>Assess the reasoning in a text to support the author’s claim for solving a technical problem.</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td><strong>Standard CC.3.5.9-10.H</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td><strong>Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td><strong>Standard CC.3.5.11-12. H</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td><strong>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td><strong>Synthesize information from a range of sources into a coherent understanding.</strong></td>
</tr>
<tr>
<td>200</td>
<td>HAND TOOLS.</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| 201  | Use screwdrivers. | CAREER CLUSTER Manufacturing Career Cluster  
(Choose Standards)  
1-2-3-4-5-6-7 |
| 202  | Use pliers. | CAREER PATHWAYS INCLUDE:  
Maintenance, Installation and Repair Career Pathway  
(Choose Standards)  
1-2-3-4-5-6 |
| 203  | Use keyhole/drywall saw. | KEY IDEAS/DETAILS  
GRADES 9-10-11-12  
Standard CC.3.5.9-10. A  
Standard CC.3.5.11-12 A  
Cite specific textual evidence, etc.  
Standard CC.3.5.9-10 B  
Standard CC.3.5.11-12. B  
Determine the central ideas or conclusions of a text; etc.  
Standard CC.3.5.9-10.C  
Standard CC.3.5.11-12.C  
Follow precisely a complex multistep procedure, etc.  
CRAFT & STRUCTURE  
GRADES 9-10-11-12  
Standard CC.3.5.9-10. D  
Standard CC.3.5.11-12.D  
Determine the meaning of symbols, key terms, and other domain specific words.  
Standard CC.3.5.9-10.E  
Standard CC.3.5.11-12.E  
Analyze the structure of the relationships among concepts in a text, etc.  
Standard CC.3.5.9-10.F  
Standard CC.3.5.11-12.F  
Analyze the author’s purpose in providing an explanation, describing a procedure...and  
Analyze the structure of the relationships among concepts in a text.  
INTEGRATE KNOWLEDGE & IDEAS  
GRADES 9-10  
Standard CC.3.5.9-10.G |
| 204  | Use hydraulic knockout/punch tool. | NOTE:  
Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area. |
| 205  | Use a tape measure. | |
| 206  | Use wire strippers. | |
| 207  | Use wire cutters. | |
| 208  | Use utility knife. | |
| 209  | Use torpedo level. | |
| 210  | Use a hammer. | |
| 211  | Use a conduit reamer. | |
| 212  | Use a hacksaw. | |
| 213  | Use a roto-split. | |
| 214  | Use adjustable or non-adjustable wrenches. | |
| 215  | Use ratchet and sockets. | |
| 216  | Use nut drivers. | |
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 formats...to 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 9-10-11-12**
**Standard CC.3.5.9-10.J**
**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.

<table>
<thead>
<tr>
<th>300</th>
<th>POWER TOOLS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>RESERVED</td>
</tr>
<tr>
<td>302</td>
<td>Use electric hammer drill.</td>
</tr>
<tr>
<td>303</td>
<td>Use reciprocating saw.</td>
</tr>
<tr>
<td>304</td>
<td>Use portable hand-held band saw.</td>
</tr>
<tr>
<td>305</td>
<td>RESERVED</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAREER CLUSTER Manufacturing Career Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Choose Standards) 1-2-3-4-5-6-7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KEY IDEAS/DETAILS GRADES 9-10-11-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard CC.3.5.9-10. A</td>
</tr>
<tr>
<td>Standard CC.3.5.11-12 A</td>
</tr>
<tr>
<td>Cite specific textual evidence, etc.</td>
</tr>
</tbody>
</table>

| Standard CC.3.5.9-10 B |
| Standard CC.3.5.11-12 B |

<table>
<thead>
<tr>
<th>TEXT TYPES AND PURPOSE GRADES 9-10-11-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard CC.3.6.9-10.A</td>
</tr>
<tr>
<td>Standard CC.3.6.11-12.A</td>
</tr>
<tr>
<td>Write arguments focused on discipline specific content.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NUMBERS AND OPERATIONS Standard 2.1.HS.F.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply properties of rational and irrational numbers to</td>
</tr>
<tr>
<td>Page</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>306</td>
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<tr>
<td>307</td>
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<td>308</td>
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<td>309</td>
</tr>
<tr>
<td>310</td>
</tr>
<tr>
<td>311</td>
</tr>
</tbody>
</table>

**CAREER PATHWAYS INCLUDE:**
- Maintenance,
- Installation and Repair Career Pathway
  (Choose Standards) 1-2-3-4-5-6

**NOTE:**
Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area.

<table>
<thead>
<tr>
<th>CAREER PATHWAYS INCLUDE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance, Installation and Repair Career Pathway</td>
</tr>
<tr>
<td>(Choose Standards) 1-2-3-4-5-6</td>
</tr>
</tbody>
</table>

**Determine the central ideas or conclusions of a text; etc.**

**CRAFT & STRUCTURE**

**GRADES 9-10-11-12**
- Standard CC.3.5.9-10.C
- Standard CC.3.5.11-12.C

**Follow precisely a complex multistep procedure, etc.**

**INTEGRATE KNOWLEDGE & IDEAS**

**GRADES 9-10**
- Standard CC.3.5.9-10.G
- Standard CC.3.5.9-10. H

**Analyze 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.

<table>
<thead>
<tr>
<th>PRODUCTION &amp; DISTRIBUTION OF WRITING</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADES 9-10-11-12</td>
</tr>
<tr>
<td>Standard CC.3.6.9-10.B</td>
</tr>
<tr>
<td>Standard CC.3.6.11-12.B</td>
</tr>
</tbody>
</table>

**Write informative or explanatory texts, including the narration of technical processes, etc.**

**INTEGRATE KNOWLEDGE & IDEAS**

**GRADES 9-10**
- Standard CC.3.5.9-10.D
- Standard CC.3.5.11-12.D

**Determine the meaning of symbols, key terms, and other domain specific words.**

**Standard CC.3.5.9-10.E**
- Standard CC.3.5.11-12.E

**Analyze the structure of the relationships among concepts in a text.**

**INTEGRATE KNOWLEDGE & IDEAS**

**GRADES 9-10**
- Standard CC.3.5.9-10.F
- Standard CC.3.5.11-12.F

**Analyze the author’s purpose in providing an explanation, describing a procedure...and Analyze the structure of the relationships among concepts in a text.**

<table>
<thead>
<tr>
<th>PRODUCTION &amp; DISTRIBUTION OF WRITING</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADES 9-10-11-12</td>
</tr>
<tr>
<td>Standard CC.3.6.9-10.C</td>
</tr>
<tr>
<td>Standard CC.3.6.11-12.C</td>
</tr>
<tr>
<td>Standard CC.3.6.12-C</td>
</tr>
</tbody>
</table>

**Produce clear and coherent writing...appropriate to task, purpose, and audience.**

**INTEGRATE KNOWLEDGE & IDEAS**

**GRADES 9-10**
- Standard CC.3.5.9-10.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.3.5.9-10.G**
- Standard CC.3.6.11-12.G

**Gather relevant information from multiple authoritative print and digital sources, etc.**

**ALGEBRA**

**Standard 2.1.HS.F.4**
- Use units as a way to understand problems and to guide the solution of multistep problems.

<table>
<thead>
<tr>
<th>PRODUCTION &amp; DISTRIBUTION OF WRITING</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADES 9-10-11-12</td>
</tr>
<tr>
<td>Standard CC.3.6.9-10.C</td>
</tr>
<tr>
<td>Standard CC.3.6.11-12.C</td>
</tr>
</tbody>
</table>

**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 numbers.

**INTEGRATE KNOWLEDGE & IDEAS**

**GRADES 9-10**
- 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 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).**

**INTEGRATE KNOWLEDGE & IDEAS**

**GRADES 9-10**
- Standard CC.3.5.9-10.F

**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.

**ALGEBRA**

**Standard 2.2.HS.C.9**
- Prove the Pythagorean identity and use it to calculate trigonometric ratios.

**Standard 2.2.HS.C.9**
- Prove the Pythagorean identity and use it to calculate trigonometric ratios.

**Geometry**

**Standard 2.3.HS.A.7**
- Apply trigonometric ratios to solve problems involving right triangles.

**Standard 2.3.HS.A.3**
- Verify and apply geometric theorems as they relate to geometric figures.

**Standard 2.3.HS.A.13**
- Analyze relationships between two dimensional and three dimensional objects.
### KEY IDEAS/DETAILS

**GRADES 9-10-11-12**

- **Standard CC.3.5.9-10.A**: Cite specific textual evidence, etc.
- **Standard CC.3.5.9-10.B**: Determine the central ideas or conclusions of a text, etc.
- **Standard CC.3.5.9-10.C**: Follow precisely a complex multistep procedure, etc.
- **Standard CC.3.5.9-10.D**: Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

### CRAFT & STRUCTURE

**GRADES 9-10-11-12**

- **Standard CC.3.5.11-12.A**: Write arguments focused on discipline specific content.
- **Standard CC.3.5.11-12.B**: Write informative or explanatory texts, including the narration of technical processes, etc.

### TEXT TYPES AND PURPOSE

**GRADES 9-10-11-12**

- **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.

### NUMBERS AND OPERATIONS

- **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.

---

<table>
<thead>
<tr>
<th>400</th>
<th>BLUEPRINT READING.</th>
</tr>
</thead>
<tbody>
<tr>
<td>401</td>
<td>Identify types of blueprint plans.</td>
</tr>
<tr>
<td>402</td>
<td>Identify blueprint symbols.</td>
</tr>
<tr>
<td>403</td>
<td>Interpret blueprint plans.</td>
</tr>
<tr>
<td>404</td>
<td>RESERVED</td>
</tr>
<tr>
<td>405</td>
<td>Develop electrical details on a residential blueprint.</td>
</tr>
<tr>
<td>406</td>
<td>Use a measuring tool to scale.</td>
</tr>
</tbody>
</table>

**CAREER CLUSTER**

Manufacturing Career Cluster

(Choose Standards)

1-2-3-4-5-6-7

**CAREER PATHWAYS INCLUDE:**

- Maintenance, Installation and Repair Career Pathway
  (Choose Standards)
  1-2-3-4-5-6

**NOTE:**

Refer to the Common Career Technical Core

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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 formats...to 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 WRITING**

**GRADES 9-10-11-12**

- **Standard CC.3.5.9-10.J**: By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.

**RANGE OF READING**

**GRADES 9-10-11-12**

- **Standard CC.3.5.9-10.K**: By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.

**following a standard format for citation.**

- **Standard CC.3.6.9-10.H.**

**DRAW evidence from informational texts to support analysis, reflection, and research.**

- **Standard CC.3.6.11-12.H.**

**DRAFT藍PRINCIPLES READING.**

- **Standard CC.3.6.9-10.I &**
  - **Standard CC.3.6.11-12.I.**

**Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.**

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**400** BLUEPRINT READING.

- **401** Identify types of blueprint plans.
- **402** Identify blueprint symbols.
- **403** Interpret blueprint plans.
- **404** RESERVED
- **405** Develop electrical details on a residential blueprint.
- **406** Use a measuring tool to scale.
| Standards Booklet if you wish to add more Pathways to meet the needs of your local Area. | Determine the meaning of symbols, key terms, and other domain specific words.  
Standard CC.3.5.9-10.E  
Standard CC.3.5.11-12.E 
Analyze the structure of the relationships among concepts in a text, etc.  
Standard CC.3.5.9-10.F  
Standard CC.3.5.11-12.F 
Analyze the author’s purpose in providing an explanation, describing a procedure...and Analyze the structure of the relationships among concepts in a text.  
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 formats...to 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.  
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 a specific purpose and audience.  
Standard CC.3.6.9-10.E  
Standard CC.3.6.11-12.E 
Use technology, including the internet, to produce, publish, and update individual or shared writing products.  
RESEARCH 
GRADES 9-10-11-12  
Standard CC.3.6.9-10.F  
Standard CC.3.6.11-12.F 
Conduct short and more sustained research to answer a question or solve a problem.  
Standard CC.3.6.9-10.G  
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.3.6.9-10.H  
Standard CC.3.6.11-12.H 
Draw evidence from informational texts to support analysis, reflection, and research.  
RANGE OF WRITING 
GRADES 9-10-11-12  
Standard CC.3.5.9-10.1 & Standard CC.3.5.11-12.1. 
 | Extend the knowledge of arithmetic operations and apply to complex numbers.  
ALGEBRA  
Standard 2.2.HS.C.9 
Prove the Pythagorean identity and use it to calculate trigonometric ratios.  
GEOMETRY  
Standard 2.3.HS.A.7 
Apply trigonometric ratios to solve problems involving right triangles.  
Standard 2.3.HS.A.3 
Verify and apply geometric theorems as they relate to geometric figures.  
Standard 2.3.HS.A.13 
Analyze relationships between two dimensional and three dimensional objects.  
<p>|</p>
<table>
<thead>
<tr>
<th>500</th>
<th>ANCHORS AND SUPPORTS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>501</td>
<td>Identify, select, and install various types of anchors and supports.</td>
</tr>
</tbody>
</table>

**CAREER CLUSTER**
Manufacturing Career Cluster
(Choose Standards)
1-2-3-4-5-6-7

**CAREER PATHWAYS INCLUDE:**
Maintenance, Installation and Repair Career Pathway
(Choose Standards)
1-2-3-4-5-6

**NOTE:**
Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area.

**KEY IDEAS/DETAILS**
GRADES 9-10-11-12
Standard CC.3.5.9-10.A
Cite specific textual evidence, etc.
Standard CC.3.5.9-10.B
Determine the central ideas or conclusions of a text; etc.
Standard CC.3.5.9-10.C
Follow precisely a complex multistep procedure, etc.

**CRAFT & STRUCTURE**
GRADES 9-10-11-12
Standard CC.3.5.11-12.D
Analyze the structure of the relationships among concepts in a text, etc.

**TEXT TYPES AND PURPOSE**
GRADES 9-10-11-12
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.

**PRODUCTION & DISTRIBUTION OF WRITING**
GRADES 9-10-11-12
Standard CC.3.6.11-12.C
Produce clear and coherent writing appropriate to task, purpose, and audience.

**NUMBERS AND OPERATIONS**
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.

**GEOMETRY**
Standard 2.3.HS.A.13
Analyze relationships between two dimensional and three dimensional objects.
Analyze the structure of the relationships among concepts in a text.

**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 formats to 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 9-10-11-12**

**Standard CC.3.5.9-10.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.E**
Use technology, including the internet, to produce, publish, and update individual or shared writing products.

**RESEARCH**

**GRADES 9-10-11-12**

**Standard CC.3.6.9-10.F**

**Standard CC.3.6.11-12.F**
Conduct short and more sustained research to answer a question or solve a problem.

**Standard CC.3.6.9-10.G**

**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.3.6.9-10.H**

**Standard CC.3.6.11-12.H**
Draw evidence from informational texts to support analysis, reflection, and research.

**RANGE OF WRITING**

**GRADES 9-10-11-12**

**Standard CC.3.5.9-10.I** & **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.
<table>
<thead>
<tr>
<th>600 RESIDENTIAL CABLELING TECHNOLOGY.</th>
<th>CAREER CLUSTER</th>
<th>KEY IDEAS/DETAILS</th>
<th>TEXT TYPES AND PURPOSE</th>
<th>NUMBERS AND OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install non-metallic (NM) Cable for connection to an electrical device.</td>
<td>Manufacturing Career Cluster</td>
<td>Install SE cable.</td>
<td>TEXT TYPES AND PURPOSE</td>
<td>Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.</td>
</tr>
<tr>
<td>Install metal-clad cable (MC).</td>
<td>(Choose Standards) 1-2-3-4-5-6-7</td>
<td>Install a coaxial cable.</td>
<td>GRADES 9-10-11-12 Standard CC.3.6.9-10.A</td>
<td>Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.</td>
</tr>
<tr>
<td>RESERVED</td>
<td>Cite specific textual evidence, etc.</td>
<td>Terminating a coaxial cable.</td>
<td>Standard CC.3.5.9-10.B</td>
<td>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</td>
</tr>
<tr>
<td>RESERVED</td>
<td>Determine the central ideas or conclusions of a text; etc.</td>
<td>Install metal</td>
<td>Standard CC.3.5.11-12.B</td>
<td>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</td>
</tr>
<tr>
<td>RESERVED</td>
<td>Follow precisely a complex multistep procedure, etc.</td>
<td>TERMINAL &amp; REPAIR</td>
<td>Standard CC.3.5.11-12.C</td>
<td>ALGEBRA</td>
</tr>
<tr>
<td>601</td>
<td>Install SE cable.</td>
<td>CAREER PATHWAYS INCLUDE:</td>
<td>Resolutions 9-10-11-12 Standard CC.3.6.9-10.A</td>
<td>Standard 2.2.HS.C.9 Prove the Pythagorean identity and use it to calculate trigonometric ratios.</td>
</tr>
<tr>
<td>603</td>
<td>Terminated a coaxial cable.</td>
<td>(Choose Standards)</td>
<td>Standard CC.3.6.9-10.C</td>
<td>Standard 2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles.</td>
</tr>
<tr>
<td>604</td>
<td>Identify telecommunications cable types.</td>
<td>CRAFT &amp; STRUCTURE</td>
<td>Standard CC.3.6.9-10.D</td>
<td>STANDARD 2.3.HS.A.3 Verify and apply geometric theorems as they relate to geometric figures.</td>
</tr>
<tr>
<td>605</td>
<td>Install non-metallic (NM) Cable for connection to an electrical device.</td>
<td>GRADES 9-10-11-12</td>
<td>Standard CC.3.6.9-10.E</td>
<td>Standard 2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects.</td>
</tr>
<tr>
<td>606</td>
<td>RESIDENTIAL CABLING TECHNOLOGY.</td>
<td>Standard CC.3.5.9-10.A</td>
<td>Standard CC.3.6.9-10.F</td>
<td>gravities and forces.</td>
</tr>
<tr>
<td>608</td>
<td>RESIDENTIAL CABLING TECHNOLOGY.</td>
<td>Standard CC.3.5.9-10.C</td>
<td>Standard CC.3.6.11-12.C</td>
<td>RESERCH</td>
</tr>
<tr>
<td>609</td>
<td>Identify telecommunications cable types.</td>
<td>Standard CC.3.5.11-12.D</td>
<td>Standard CC.3.6.11-12.D</td>
<td>GRADES 9-10-11-12 Standard CC.3.6.9-10.A</td>
</tr>
<tr>
<td>610</td>
<td>RESIDENTIAL CABLING TECHNOLOGY.</td>
<td>STANDARD 1-2-3-4-5-6</td>
<td>Standard CC.3.5.9-10.E</td>
<td>Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</td>
</tr>
<tr>
<td>611</td>
<td>Install non-metallic (NM) Cable for connection to an electrical device.</td>
<td>STANDARD 1-2-3-4-5-6</td>
<td>Standard CC.3.5.9-10.F</td>
<td>Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.</td>
</tr>
</tbody>
</table>

NOTE: Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area.
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 formats...to 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 9-10-11-12**  
**Standard CC.3.5.9-10. J**  
By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.

**Conduct short and more sustained research to answer a question or solve a problem.**  
**Standard CC.3.6.9-10.G**  
**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.3.6.9-10.H**  
**Standard CC.3.6.11-12.H**  
Draw evidence from informational texts to support analysis, reflection, and research.

**RANGE OF WRITING**  
**GRADES 9-10-11-12**  
**Standard CC.3.5.9-10. I & 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.

**CAREER CLUSTER**  
**Manufacturing Career Cluster**  
(Choose Standards)

**KEY IDEAS/DETAILS**  
**GRADES 9-10-11-12**  
**Standard CC.3.5.9-10. A**  
Cite specific textual evidence, etc.

**Standard CC.3.5.9-10. B**  
Determine the central ideas or conclusions of a text; 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**  
Write informative or explanatory texts, including

**NUMBERS AND OPERATIONS**  
**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
| 710 Install a dryer receptacle. | Maintenance, Installation and Repair Career Pathway  
(Choose Standards)  
1-2-3-4-5-6  
NOTE: Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area. | Follow precisely a complex multistep procedure, etc.  
**CRAFT & STRUCTURE**  
**GRADES 9-10-11-12**  
Standard CC.3.5.9-10.D  
Standard CC.3.5.11-12.D  
Determine the meaning of symbols, key terms, and other domain specific words.  
Standard CC.3.5.9-10.E  
Standard CC.3.5.11-12.E  
Analyze the structure of the relationships among concepts in a text, etc.  
Standard CC.3.5.9-10.F  
Standard CC.3.5.11-12.F  
Analyze the author’s purpose in providing an explanation, describing a procedure...and Analyze the structure of the relationships among concepts in a text.  
**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  
the narration of technical processes, etc.  
**PRODUCTION & DISTRIBUTION OF WRITING**  
**GRADES 9-10-11-12**  
Standard CC.3.6.9-10.C  
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 a specific purpose and audience.  
**RESEARCH**  
**GRADES 9-10-11-12**  
Standard CC.3.6.9-10.E  
Standard CC.3.6.11-12.E  
Use technology, including the internet, to produce, publish, and update individual or shared writing products.  
**GEOMETRY**  
**Standard 2.3.HS.A.7**  
Apply trigonometric ratios to solve problems involving right triangles.  
**Standard 2.3.HS.A.3**  
Verify and apply geometric theorems as they relate to geometric figures.  
**Standard 2.3.HS.A.13**  
Analyze relationships between two dimensional and three dimensional objects. |  
Follow precisely a complex multistep procedure, etc.  
**CRAFT & STRUCTURE**  
**GRADES 9-10-11-12**  
Standard CC.3.5.9-10.D  
Standard CC.3.5.11-12.D  
Determine the meaning of symbols, key terms, and other domain specific words.  
Standard CC.3.5.9-10.E  
Standard CC.3.5.11-12.E  
Analyze the structure of the relationships among concepts in a text, etc.  
Standard CC.3.5.9-10.F  
Standard CC.3.5.11-12.F  
Analyze the author’s purpose in providing an explanation, describing a procedure...and Analyze the structure of the relationships among concepts in a text.  
**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  
the narration of technical processes, etc.  
**PRODUCTION & DISTRIBUTION OF WRITING**  
**GRADES 9-10-11-12**  
Standard CC.3.6.9-10.C  
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 a specific purpose and audience.  
**RESEARCH**  
**GRADES 9-10-11-12**  
Standard CC.3.6.9-10.E  
Standard CC.3.6.11-12.E  
Use technology, including the internet, to produce, publish, and update individual or shared writing products.  
**GEOMETRY**  
**Standard 2.3.HS.A.7**  
Apply trigonometric ratios to solve problems involving right triangles.  
**Standard 2.3.HS.A.3**  
Verify and apply geometric theorems as they relate to geometric figures.  
**Standard 2.3.HS.A.13**  
Analyze relationships between two dimensional and three dimensional objects. |
Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.

**Standard CC.3.5.11-12.**

Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.

**Standard CC.3.5.11-12.**

Synthesize information from a range of sources into a coherent understanding.

**RANGE OF READING**

**GRADES 9-10-11-12**

**Standard CC.3.5.9-10.J**

By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.

**RANGE OF WRITING**

**GRADES 9-10-11-12**

**Standard CC.3.5.9-10.I & 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.

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### 800 FIXTURES.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>
| 801 | Install surface-mounted lighting fixture. | **CAREER CLUSTER**  
Manufacturing Career Cluster  
(Choose Standards)  
1-2-3-4-5-6-7  
**CAREER PATHWAYS INCLUDE:**  
Maintenance, Installation and Repair Career Pathway  
(Choose Standards)  
1-2-3-4-5-6  
**NOTE:**  
Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area. |
| 802 | Install recessed lighting fixtures. | **KEY IDEAS/DETAILS**  
GRADES 9-10-11-12  
Standard CC.3.5.9-10. A  
Standard CC.3.5.11-12 A  
Cite specific textual evidence, etc.  
**Standard CC.3.5.9-10 B**  
**Standard CC.3.5.11-12 B**  
Determine the central ideas or conclusions of a text; etc.  
**Standard CC.3.5.9-10.C**  
**Standard CC.3.5.11-12.C**  
Follow precisely a complex multistep procedure, etc.  
**CRAFT & STRUCTURE**  
**GRADES 9-10-11-12**  
**Standard CC.3.5.9-10.D**  
**Standard CC.3.5.11-12.D**  
Determine the meaning of symbols, key terms, and other domain specific words.  
**Standard CC.3.5.9-10.E**  
**Standard CC.3.5.11-12.E**  
Draw evidence from informational texts to support analysis, reflection, and research. |
| 803 | Install a ceiling fan. | **NUMBERS AND OPERATIONS**  
**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 numbers. |
| 804 | Install LED lighting. |  |
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...and
Analyze the structure of the relationships among concepts in a text.

**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 formats...to 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 9-10-11-12**
- Standard CC.3.5.9-10.J
- 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.

### CAREER CLUSTER

**Manufacturing Career Cluster**

(Choose Standards)

1-2-3-4-5-6-7

### CAREER PATHWAYS

**INCLUDE:**
- Maintenance, Installation and Repair Career Pathway

(Choose Standards)

1-2-3-4-5-6

**NOTE:** Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area.

### KEY IDEAS/DETAILS

**GRADES 9-10-11-12**
- Standard CC.3.5.9-10
- Standard CC.3.5.11-12

Cite specific textual evidence, etc.

### TEXT TYPES AND PURPOSE

**GRADES 9-10-11-12**
- Standard CC.3.6.9-10.A
- Standard CC.3.6.11-12.A

Write arguments focused on discipline specific content.

- Standard CC.3.6.9-10.B
- Standard CC.3.6.11-12.B

Write informative or explanatory texts, including the narration of technical processes, etc.

### CRAFT & STRUCTURE

**GRADES 9-10-11-12**
- Standard CC.3.5.9-10.D
- Standard CC.3.5.11-12.D

Determine the central ideas or conclusions of a text; etc.

- Standard CC.3.5.9-10.C
- Standard CC.3.5.11-12.C

Follow precisely a complex multistep procedure, etc.

### PRODUCTION & DISTRIBUTION OF WRITING

**GRADES 9-10-11-12**
- Standard CC.3.6.9-10.C
- 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 a specific purpose and audience.

### NUMBERS AND OPERATIONS

**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 numbers.

### ALGEBRA

**Standard 2.2.HS.C.9**
Prove the Pythagorean identity and use it to calculate trigonometric ratios.

### GEOMETRY

**Standard 2.3.HS.A.7**
Apply trigonometric ratios to solve problems involving right triangles.
<table>
<thead>
<tr>
<th>INTEGRATE KNOWLEDGE &amp; IDEAS</th>
<th>GRADES 9-10</th>
<th>Standard CC.3.5.9-10.G</th>
<th>Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).</th>
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<tr>
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<td><strong>Standard CC.3.5.9-10.H</strong></td>
<td>Assess the reasoning in a text to support the author’s claim for solving a technical problem.</td>
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<td></td>
<td><strong>Standard CC.3.5.9-10.I</strong></td>
<td>Compare and contrast findings presented in a text to those from other sources, etc.</td>
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<td>INTEGRATE KNOWLEDGE &amp; IDEAS</td>
<td>GRADES 11-12</td>
<td>Standard CC.3.5.11-12.G</td>
<td>Integrate and evaluate multiple sources of information presented in diverse formats...to solve a problem.</td>
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<td>Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.</td>
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<td></td>
<td><strong>Standard CC.3.5.11-12.I</strong></td>
<td>Synthesize information from a range of sources into a coherent understanding.</td>
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### RANGE OF READING

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<thead>
<tr>
<th>GRADES 9-10-11-12</th>
<th>Standard CC.3.5.9-10.J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard CC.3.5.11-12.J</td>
<td>By the end of grades 9- 10, AND 11- 12, read and comprehend technical texts independently and proficiently.</td>
</tr>
</tbody>
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### RANGE OF WRITING

<table>
<thead>
<tr>
<th>GRADES 9-10-11-12</th>
<th>Standard CC.3.5.9-10.I &amp; Standard CC.3.5.11-12.I.</th>
</tr>
</thead>
<tbody>
<tr>
<td>By the end of grades</td>
<td>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</td>
</tr>
</tbody>
</table>

### RESEARCH

<table>
<thead>
<tr>
<th>GRADES 9-10-11-12</th>
<th>Conduct short and more sustained research to answer a question or solve a problem.</th>
</tr>
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<tbody>
<tr>
<td><strong>Standard CC.3.6.9-10.G.</strong></td>
<td>Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</td>
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<tr>
<td><strong>Standard CC.3.6.11-12.G.</strong></td>
<td>Draw evidence from informational texts to support analysis, reflection, and research.</td>
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### RANGE OF WRITING

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<td><strong>Standard 2.3.HS.A.13</strong></td>
<td>Analyze relationships between two dimensional and three dimensional objects.</td>
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</table>

### RANGE OF WRITING

<table>
<thead>
<tr>
<th>GRADES 9-10-11-12</th>
<th>1000 WIRED DEVICES.</th>
</tr>
</thead>
</table>

Revised June 2018
<table>
<thead>
<tr>
<th>NUMBER</th>
<th>TASK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001</td>
<td>Install a hard-wired smoke detector.</td>
</tr>
<tr>
<td>1002</td>
<td>Install door-bell system.</td>
</tr>
<tr>
<td>1003</td>
<td>Trim out electrical devices.</td>
</tr>
<tr>
<td>1004</td>
<td>Install an occupancy sensor.</td>
</tr>
<tr>
<td>1005</td>
<td>Install a photocell.</td>
</tr>
</tbody>
</table>

**CAREER CLUSTER**
Manufacturing Career Cluster
(Choose Standards)
1-2-3-4-5-6-7

**CAREER PATHWAYS**
INCLUDE:
Maintenance, Installation and Repair Career Pathway
(Choose Standards)
1-2-3-4-5-6

**NOTE:**
Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area.

**KEY IDEAS/DETAILS**
GRADES 9-10-11-12
Standard CC.3.5.9-10. A
Standard CC.3.5.11-12 A
Cite specific textual evidence, etc.
Standard CC.3.5.9-10 B
Standard CC.3.5.11-12. B
Determine the central ideas or conclusions of a text; etc.
Standard CC.3.5.9-10.C
Standard CC.3.5.11-12.C
Follow precisely a complex multistep procedure, etc.

**CRAFT & STRUCTURE**
GRADES 9-10-11-12
Standard CC.3.5.9-10. D
Standard CC.3.5.11-12.D
Determine the meaning of symbols, key terms, and other domain specific words.
Standard CC.3.5.9-10.E
Standard CC.3.5.11-12.E
Analyze the structure of the relationships among concepts in a text, etc.
Standard CC.3.5.9-10.F
Standard CC.3.5.11-12.F
Analyze the author’s purpose in providing an explanation, describing a procedure...and Analyze the structure of the relationships among concepts in a text.

**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

**TEXT TYPES AND PURPOSE**
GRADES 9-10-11-12
Standard CC.3.6.11-12.A
Write arguments focused on discipline specific content.
Standard CC.3.6.9-10.B
Standard CC.3.6.11-12.B
Write informative or explanatory texts, including the narration of technical processes, etc.

**PRODUCTION & DISTRIBUTION OF WRITING**
GRADES 9-10-11-12
Standard CC.3.6.9-10.C
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 a specific purpose and audience.

**RESEARCH**
GRADES 9-10-11-12
Standard CC.3.6.9-10.F
Standard CC.3.6.11-12.F
Conduct short and more sustained research to answer

**NUMBERS AND OPERATIONS**
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 numbers.
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 formats...to 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 9-10-11-12**

**Standard CC.3.5.9-10. J**

By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.

**CAREER CLUSTER**

Manufacturing Career Cluster

(Choose Standards)

1-2-3-4-5-6-7

**CAREER PATHWAYS INCLUDE:**

**KEY IDEAS/DETAILS**

**GRADES 9-10-11-12**

**Standard CC.3.5.9-10. A**

Cite specific textual evidence, etc.

**Standard CC.3.5.11-12 A**

Determine the central ideas or conclusions of a text; etc.

**Standard CC.3.5.9-10 B**

Write arguments focused on discipline specific content.

**Standard CC.3.5.11-12. B**

Write informative or explanatory texts, including

**TEXT TYPES AND PURPOSE**

**GRADES 9-10-11-12**

**Standard CC.3.6.9-10.A**

Write arguments focused on discipline specific content.

**Standard CC.3.6.11-12.A**

Write informative or explanatory texts, including

**NUMBERS AND OPERATIONS**

**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

**NUMBERS AND OPERATIONS**

**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
Maintenance, Installation and Repair Career Pathway
(Choose Standards)

1-2-3-4-5-6

NOTE:
Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area.

Follow precisely a complex multistep procedure, etc.

CRAFT & STRUCTURE
GRADES 9-10-11-12
Standard CC.3.5.9-10.D
Standard CC.3.5.11-12.D
Determine the meaning of symbols, key terms, and other domain specific words.

Standard CC.3.5.9-10.E
Standard CC.3.5.11-12.E
Analyze the structure of the relationships among concepts in a text, etc.

Standard CC.3.5.9-10.F
Standard CC.3.5.11-12.F
Analyze the author’s purpose in providing an explanation, describing a procedure...and
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INTEGRATE KNOWLEDGE & IDEAS
GRADES 9-10
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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, etc.

INTEGRATE KNOWLEDGE & IDEAS
GRADES 11-12
Standard CC.3.5.11-12.G

the narration of technical processes, etc.

PRODUCTION & DISTRIBUTION OF WRITING
GRADES 9-10-11-12
Standard CC.3.6.9-10.C
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 a specific purpose and audience.

INTEGRATE KNOWLEDGE & IDEAS
GRADES 9-10
Standard CC.3.6.9-10.F
Standard CC.3.6.11-12.F
Conduct short and more sustained research to answer a question or solve a problem.

Standard CC.3.6.9-10.G
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.3.6.9-10.H
Standard CC.3.6.11-12.H

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.
### Key Ideas/Details

**Grades 9-10-11-12**

- **Standard CC.3.5.9-10.**
  - Cite specific textual evidence, etc.

- **Standard CC.3.5.11-12.**
  - Determine the central ideas or conclusions of a text, etc.

- **Standard CC.3.5.9-10. A**
  - Standard CC.3.5.11-12 A
  - Cite specific textual evidence, etc.

- **Standard CC.3.5.9-10 B**
  - Standard CC.3.5.11-12 B
  - Determine the central ideas or conclusions of a text, etc.

### Craft & Structure

**Grades 9-10-11-12**

- **Standard CC.3.5.9-10. C**
  - Standard CC.3.5.11-12 C
  - Follow precisely a complex multistep procedure, etc.

### Numbers and Operations

**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 numbers.

### Electrical Service

<table>
<thead>
<tr>
<th>Code</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>ELECTRICAL SERVICE.</td>
</tr>
<tr>
<td>1201</td>
<td>Install an overhead service.</td>
</tr>
<tr>
<td>1202</td>
<td>Identify parts of an underground service.</td>
</tr>
<tr>
<td>1203</td>
<td>RESERVED</td>
</tr>
<tr>
<td>1204</td>
<td>RESERVED</td>
</tr>
<tr>
<td>1205</td>
<td>RESERVED</td>
</tr>
<tr>
<td>1206</td>
<td>RESERVED</td>
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<tr>
<td>1207</td>
<td>RESERVED</td>
</tr>
<tr>
<td>1208</td>
<td>RESERVED</td>
</tr>
<tr>
<td>1209</td>
<td>Identify types of safety disconnect switches.</td>
</tr>
<tr>
<td>1210</td>
<td>Terminate a service panel/load center.</td>
</tr>
</tbody>
</table>

### Career Cluster

- **Manufacturing Career Cluster**

  (Choose Standards)

  1-2-3-4-5-6-7

### Career Pathways

**Maintenance, Installation and Repair Career Pathway**

(Choose Standards)

1-2-3-4-5-6

### Notes

Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area.
<table>
<thead>
<tr>
<th>Standards</th>
<th>Task Description</th>
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</thead>
<tbody>
<tr>
<td>CC.3.5.9-10.F</td>
<td>Analyze the structure of the relationships among concepts in a text.</td>
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<td>CC.3.5.11-12.F</td>
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**INTEGRATE KNOWLEDGE & IDEAS**

**GRADES 9-10**

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<td>CC.3.5.9-10.G</td>
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**GRADES 11-12**

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<td>CC.3.5.11-12.G</td>
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<tr>
<td>1300 NATIONAL ELECTRICAL CODE.</td>
<td>CAREER CLUSTER</td>
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<tr>
<td>-------------------------------</td>
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<tr>
<td>1301 Identify the purpose of the National Electrical Code (NEC).</td>
<td>Manufacturing Career Cluster</td>
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<tr>
<td>1302 Use Chapter 9 Tables.</td>
<td>(Choose Standards) 1-2-3-4-5-6-7</td>
</tr>
<tr>
<td>1303 Use the NEC as a reference to questions and competencies that students perform for all electrical installations.</td>
<td>CAREER PATHWAYS INCLUDE: Maintenance, Installation and Repair Career Pathway (Choose Standards) 1-2-3-4-5-6</td>
</tr>
<tr>
<td>1304 Identify the publisher of the National Electrical Code (NEC).</td>
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<tr>
<td>1305 Identify the code cycle of the National Electrical Code (NEC).</td>
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<td></td>
<td>Standard CC.3.5.11-12.C</td>
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<td>Analyze the author’s purpose in providing an explanation, describing a procedure...and</td>
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**NUMBERS AND OPERATIONS**

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 numbers.
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<tr>
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<th>RANG OF READING</th>
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<td>Standard CC.3.5.9-10.J</td>
<td>By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.</td>
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<tr>
<td>Standard CC.3.5.11-12.J</td>
<td>Publish, and update individual or shared writing products.</td>
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<tr>
<th>RESEARCH</th>
<th>GRADES 9-10-11-12</th>
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<td>Standard CC.3.6.9-10.F</td>
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<td>Gather relevant information from multiple authoritative print and digital sources, following a standard format for citation.</td>
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<td>Standard CC.3.6.9-10.H</td>
<td>Draw evidence from informational texts to support analysis, reflection, and research.</td>
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<td>Write routinely over extended time frames and shorter time frames for a range of tasks, purposes and audiences...etc.</td>
</tr>
</tbody>
</table>
1401 Identify renewable energy sources.
1402 Identify procedures for installing a wind turbine system.
1404 Identify procedures for installing a solar energy source system.
1406 Evaluate the demand and consumption of electrical energy.

<table>
<thead>
<tr>
<th>CAREER CLUSTER</th>
<th>CAREER PATHWAYS INCLUDE:</th>
<th>KEY IDEAS/DETAILS</th>
<th>TEXT TYPES AND PURPOSE</th>
<th>NUMBERS AND OPERATIONS</th>
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<td>Maintenance, Installation and Repair Career Pathway</td>
<td>(Choose Standards) 1-2-3-4-5-6-7</td>
<td>(Choose Standards) 1-2-3-4-5-6</td>
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<td>Standard CC.3.5.11-12.C</td>
<td>Standard CC.3.5.11-12.C</td>
<td>Follow precisely a complex multistep procedure, etc.</td>
<td></td>
<td>Standard 2.2.HS.C.9 Prove the Pythagorean identity and use it to calculate trigonometric ratios.</td>
</tr>
<tr>
<td>Standard CC.3.5.11-12.D</td>
<td>Standard CC.3.5.11-12.D</td>
<td></td>
<td></td>
<td>Standard 2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles.</td>
</tr>
<tr>
<td>Standard CC.3.5.11-12.E</td>
<td>Standard CC.3.5.11-12.E</td>
<td>Analyze the structure of the relationships among concepts in a text, etc.</td>
<td></td>
<td>Standard 2.3.HS.A.3 Verify and apply geometric theorems as they relate to geometric figures.</td>
</tr>
<tr>
<td>Standard CC.3.5.11-12.F</td>
<td>Standard CC.3.5.11-12.F</td>
<td>Analyze the structure of the relationships among concepts in a text.</td>
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<td>Standard 2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects.</td>
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<td>Standard CC.3.5.9-10.F</td>
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