

	Secondary Competency Task List 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 2.0
100 101 102 103 104 105 106 107 108 109	BASIC SAFETY.  Demonstrate proper use of personal protective equipment.  Identify causes of job site accidents.  Identify job site hazards.  Working safely with job hazards.  Identify safe methods and equipment of aerial work.  Demonstrate basic fire safety.  Demonstrate basic electrical safety.  Using Perform Lockout/Tag out.  Demonstrate scaffold and ladder safety.	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.3.5.9-10.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.3.5.9-10. D Standard CC.3.5.11-12.D Determine the meaning of symbols, key terms, and other domain specific words. Standard CC.3.5.11-12.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 procedureand	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.3.6.9-10.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 writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.9-10 D Standard CC.3.6.9-10 p	Standard 2.0
			Analyze the structure of the relationships among concepts in a text.	purpose and audience. Standard CC.3.6.9-10.E Standard CC.3.6.11-12.E.	

with the and Tusk rumbers.	echnical Core I Standards	Reading for Technical Subjects Standard 3.5	Standards for Writing for Technical Subjects Standard 3.6	Pennsylvania Core Standards for Mathematics Standard 2.0
	III G St St Tr in vi St Ar su at St Co pr so IN III G G St In so di St Ev an tee wi St St St St St St St	NTEGRATE KNOWLEDGE & DEAS GRADES 9-10 tandard CC.3.5.9-10.G ranslate quantitative or technical information expressed in a text into issual form (e.g. a table or chart). tandard CC.3.5.9-10. H assess the reasoning in a text to apport the author's claim for solving technical problem. tandard CC.3.5.9-10. I compare and contrast findings resented in a text to those from other ources, etc.  NTEGRATE KNOWLEDGE & DEAS GRADES 11-12 tandard CC.3.5.11-12. G attegrate and evaluate multiple ources of information presented in iverse formatsto solve a problem. tandard CC.3.5.11-12. H valuate the hypotheses, data, malysis, and conclusions in a bechnical text, verifying the data when possible. tandard CC.3.5.11-12. I ynthesize information from a range of sources into a coherent inderstanding.  EANGE OF READING GRADES 9-10-11-12 tandard CC.3.5.9-10.J tandard CC.3.5.9-10.J tandard CC.3.5.9-10.J tandard CC.3.5.11-12.J by the end of grades 9- 10, AND 11- 2, read and comprehend technical exts independently and proficiently.	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 audiencesetc.	Standard 2.0

	Secondary Competency Task List 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 2.0
200 201 202 203 204	HAND TOOLS.  Recognize, identify and safely use hammers and screwdrivers. Recognize, identify and safely use pliers and wire cutters. Recognize, identify and safely use saws and chisels. Identify and safely use hydraulic, hand tools.	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		
		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.	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 procedureand Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS GRADES 9-10 Standard CC.3.5.9-10.G		

Secondary Competency Task List 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 2.0
		Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).  Standard CC.3.5.9-10. H  Assess the reasoning in a text to support the author's claim for solving a technical problem.  Standard CC.3.5.9-10. I  Compare and contrast findings presented in a text to those from other sources, etc.		
		INTEGRATE KNOWLEDGE & IDEAS GRADES 11-12 Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12. I Synthesize information from a range of sources into a coherent understanding.		
		RANGE OF READING 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.		
300 POWER TOOLS.	CAREER CLUSTER Manufacturing Career	KEY IDEAS/DETAILS GRADES 9-10-11-12	TEXT TYPES AND PURPOSE	NUMBERS AND OPERATIONS

	Secondary Competency Task List 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 2.0
301	Recognize, identify and safely use drill and saws.	Cluster (Choose Standards)	Standard CC.3.5.9-10. A Standard CC.3.5.11-12 A	GRADES 9-10-11-12 Standard CC.3.6.9-10.A	Standard 2.1.HS.F.2 Apply properties of rational
302	Identify and safely use electric hammer drill.	1-2-3-4-5-6-7	Cite specific textual evidence, etc.  Standard CC.3.5.9-10 B  Standard CC.3.5.11-12. B	Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.	and irrational numbers to solve real world or
303	Identify and safely use reciprocating saw.	CAREER PATHWAYS INCLUDE:	Determine the central ideas or conclusions of a text; etc.	Standard CC.3.6.9-10.B Standard CC.3.6.11-12.B	mathematical problems. <b>Standard 2.1.HS.F.4</b> Use units as a way to
304	Identify and safely use portable hand held band saw.	Maintenance, Installation and Repair Career Pathway	Standard CC.3.5.9-10.C Standard CC.3.5.11-12.C Follow precisely a complex multistep	Write informative or explanatory texts, including the narration of technical	understand problems and to guide the solution of multistep problems.
305	Identify and safely use circular saw.	(Choose Standards) 1-2-3-4-5-6	procedure, etc.  CRAFT & STRUCTURE	processes, etc.  PRODUCTION &	Standard 2.1.HS.F.5 Choose a level of accuracy
306	Identify and safely use electric/cordless drill.	NOTE: Refer to the Common	GRADES 9-10-11-12 Standard CC.3.5.9-10. D	DISTRIBUTION OF WRITING GRADES 9-10-11-12	appropriate to limitations on measurement when reporting quantities.
307	Identify the safely use of a portable jig saw.	Career Technical Core Standards Booklet if you wish to add more	Standard CC.3.5.11-12.D  Determine the meaning of symbols, key terms, and other domain specific	Standard CC.3.6.9-10.C Standard CC.3.6.11-12 C Produce clear and coherent	Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and
308	Identify the safely use of a chain saw.	Pathways to meet the needs of your local Area.	words. Standard CC.3.5.9-10.E	writingappropriate to task, purpose, and audience.  Standard CC.3.6.9-10 D	apply to complex numbers.
309	Identify the use of a portable power conduit threading machine.	Alva	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 procedureand Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS GRADES 9-10 Standard CC.3.5.9-10.G	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.	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.
			Translate quantitative or technical information expressed in a text into visual form (e.g. a table or chart).	RESEARCH GRADES 9-10-11-12 Standard CC.3.6.9-10.F Standard CC.3.6.11-12.F	Standard 2.3.HS.A.13 Analyze relationships

			Standard CC.3.5.9-10. H Assess the reasoning in a text to support the author's claim for solving a technical problem.	Conduct short and more sustained research to answer a question or solve a	between two dimensional and three dimensional objects.
			Standard CC.3.5.9-10. I Compare and contrast findings presented in a text to those from other sources, etc.  INTEGRATE KNOWLEDGE & IDEAS GRADES 11-12 Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12. I Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12 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.	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.3.5.9-10.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 audiencesetc.	objects.
400 BLUEPI	RINT READING.				
, in the second	ypes of blueprint plans.	CAREER CLUSTER  Manufacturing Career Cluster (Choose Standards)	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.	TEXT TYPES AND PURPOSE GRADES 9-10-11-12 Standard CC.3.6.9-10.A Standard CC.3.6.11-12.A	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational

	dary Competency Task List 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 2.0
404 Plan branch	ueprint plans.  n circuits for blueprint development.  e electrical details to residential blueprint.	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.	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.3.5.9-10.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.3.5.9-10. 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 procedureand 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	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.3.6.9-10.C  Standard CC.3.6.11-12 C  Produce clear and coherent writingappropriate to task, purpose, and audience.  Standard CC.3.6.9-10 D  Standard CC.3.6.11-12.D  Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.  Standard CC.3.6.9-10.E  Standard CC.3.6.11-12.E.  Use technology, including the internet, to produce, publish, and update individual or shared writing products.	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.  Standard 2.3.HS.A.3  Verify and apply geometric theorems as they relate to geometric figures.
			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	RESEARCH GRADES 9-10-11-12 Standard CC.3.6.9-10.F	Standard 2.3.HS.A.13 Analyze relationships between two dimensional

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		a technical problem.  Standard CC.3.5.9-10. I  Compare and contrast findings presented in a text to those from other sources, etc.  INTEGRATE KNOWLEDGE & IDEAS  GRADES 11-12  Standard CC.3.5.11-12. G  Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem.  Standard CC.3.5.11-12. H  Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I  Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12  Standard CC.3.5.11-12.J  By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.	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 audiencesetc.	and three dimensional objects.
500 ANCHORS AND SUPPORTS.				
501 Identify, select and install various types of anchors and supports.	CAREER CLUSTER Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6-7 CAREER PATHWAYS	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	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	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.

Secondary Competency Task List 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 2.0
	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.	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.3.5.11-12.F  Analyze the author's purpose in providing an explanation, describing a procedureand  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	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 writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.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 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.  GEOMETRY  Standard 2.3.HS.A.13  Analyze relationships between two dimensional and three dimensional objects.

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			presented in a text to those from other sources, etc.  INTEGRATE KNOWLEDGE & IDEAS GRADES 11-12 Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12. I Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12 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.	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.3.6.9-10.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 audiencesetc.	
600	RESIDENTIAL CABLING TECHNOLOGY.				
601	Install Non-Metallic (NM) Cable for connection to an electrical device.	CAREER CLUSTER Manufacturing Career Cluster (Choose Standards)	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.	TEXT TYPES AND PURPOSE GRADES 9-10-11-12 Standard CC.3.6.9-10.A Standard CC.3.6.11-12.A	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational
602	Install metal clad cable (MC).	1-2-3-4-5-6-7  CAREER PATHWAYS	Standard CC.3.5.9-10 B Standard CC.3.5.11-12. B Determine the central ideas or	Write arguments focused on discipline specific content.  Standard CC.3.6.9-10.B	and irrational numbers to solve real world or mathematical problems.
603	Demonstrate knowledge and skill in installing low voltage wires and cable for timers, computers,	INCLUDE: Maintenance,	conclusions of a text; etc. Standard CC.3.5.9-10.C Standard CC.3.5.11-12.C	Standard CC.3.6.11-12.B Write informative or explanatory texts, including	Standard 2.1.HS.F.4 Use units as a way to understand problems and to

Secondary Competency Task List 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 2.0
telephones and security systems.  604 Install and terminate a residential network.  605 Demonstrate knowledge and skill in installing coaxial cable for television and telecommunications systems.  606 Demonstrate knowledge and skill in finish wiring electrical outlets, switches, fixtures and other devices in a residence.  607 Define residential networks.  608 Identify a structured media system.  609 Design and plan layout of low voltage circuits services.	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.3.5.9-10. D Determine the meaning of symbols, key terms, and other domain specific words.  Standard CC.3.5.9-10.E 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 procedureand 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.	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 writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.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	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. Standard 2.3.HS.A.3  Verify and apply geometric theorems as they relate to geometric figures.

Secondary Competency Task List 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 2.0
		INTEGRATE KNOWLEDGE & IDEAS GRADES 11-12 Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12. I Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12 Standard CC.3.5.11-12.J By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.	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.3.6.9-10.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	and three dimensional objects.
700 SWITCHES AND RECEPTACLES CIRCUITS.				
701 Install a duplex receptacle.	CAREER CLUSTER  Manufacturing Career  Cluster	KEY IDEAS/DETAILS GRADES 9-10-11-12 Standard CC.3.5.9-10. A Standard CC.3.5.11-12 A	TEXT TYPES AND PURPOSE GRADES 9-10-11-12 Standard CC.3.6.9-10.A	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2
702 Install a single pole switch.	(Choose Standards) 1-2-3-4-5-6-7	Cite specific textual evidence, etc.  Standard CC.3.5.9-10 B  Standard CC.3.5.11-12. B	Standard CC.3.6.9-10.A Standard CC.3.6.11-12.A Write arguments focused on discipline specific content.	Apply properties of rational and irrational numbers to solve real world or
703 Install a 3 way switch.	CAREER PATHWAYS INCLUDE:	Determine the central ideas or conclusions of a text; etc.	Standard CC.3.6.9-10.B Standard CC.3.6.11-12.B	mathematical problems.  Standard 2.1.HS.F.4
704 Install a 4 way switch.	Maintenance, Installation and Repair Career Pathway	Standard CC.3.5.9-10.C Standard CC.3.5.11-12.C Follow precisely a complex multistep	Write informative or explanatory texts, including the narration of technical	Use units as a way to understand problems and to guide the solution of
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Secondary Competency Task List 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 2.0
<ul> <li>705 Install a split wired duplex receptacle.</li> <li>706 Install a Ground Fault Circuit Interrupter (GFCI) Receptacle.</li> <li>707 Install an Arc Fault Circuit Interrupter (AFCI).</li> <li>708 Install a timer circuit.</li> <li>709 Install various special switches and receptacles.</li> </ul>	(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.	procedure, etc.  CRAFT & STRUCTURE GRADES 9-10-11-12 Standard CC.3.5.9-10. D 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 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 procedureand 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.	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 writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.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.3.6.9-10.F Standard CC.3.6.11-12.F Conduct short and more	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.  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.

Secondary Competency Task List 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 2.0
		INTEGRATE KNOWLEDGE & IDEAS GRADES 11-12 Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12. I Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12 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.	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 audiencesetc.	
800 FIXTURES.				
801 Install surface mounted lighting fixture.	CAREER CLUSTER Manufacturing Career Cluster	KEY IDEAS/DETAILS GRADES 9-10-11-12 Standard CC.3.5.9-10. A		NUMBERS AND OPERATIONS Standard 2.1.HS.F.2
802 Install recessed lighting fixtures.	(Choose Standards) 1-2-3-4-5-6-7	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		Apply properties of rational and irrational numbers to solve real world or
803 Install a ceiling fan.	CAREER PATHWAYS INCLUDE:	Standard CC.3.5.11-12. B Determine the central ideas or conclusions of a text; etc.		mathematical problems.  Standard 2.1.HS.F.4
804 Install low voltage lighting.	Maintenance, Installation and Repair Career Pathway	Standard CC.3.5.9-10.C Standard CC.3.5.11-12.C Follow precisely a complex multistep procedure, etc.		Use units as a way to understand problems and to guide the solution of multistep problems.

Secondary Competency Task List 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 2.0
	(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.	CRAFT & STRUCTURE GRADES 9-10-11-12 Standard CC.3.5.9-10. D 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 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 procedureand 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		Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.

	Secondary Competency Task List 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 2.0
			GRADES 11-12 Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12. I Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12 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.		
900	RACEWAYS.				
901	Install Electrical Metallic Tubing (EMT).	CAREER CLUSTER Manufacturing Career Cluster	KEY IDEAS/DETAILS GRADES 9-10-11-12 Standard CC.3.5.9-10. A Standard CC.3.5.11-12 A	TEXT TYPES AND PURPOSE GRADES 9-10-11-12 Standard CC.3.6.9-10.A	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2
902	Install Poly Vinyl Chloride conduit (PVC).	(Choose Standards) 1-2-3-4-5-6-7	Cite specific textual evidence, etc.  Standard CC.3.5.9-10 B  Standard CC.3.5.11-12. B	Standard CC.3.6.71-12.A  Standard CC.3.6.11-12.A  Write arguments focused on discipline specific content.	Apply properties of rational and irrational numbers to solve real world or
903	Identify surface metal and nonmetal raceways (Wiremold).	CAREER PATHWAYS INCLUDE:	Determine the central ideas or conclusions of a text; etc.  Standard CC.3.5.9-10.C	Standard CC.3.6.9-10.B Standard CC.3.6.11-12.B Write informative or	mathematical problems.  Standard 2.1.HS.F.4  Use units as a way to
904	Identify flexible raceway.	Maintenance, Installation and Repair Career Pathway (Choose Standards)	Standard CC.3.5.9-10.C Standard CC.3.5.11-12.C Follow precisely a complex multistep procedure, etc.	explanatory texts, including the narration of technical processes, etc.	understand problems and to guide the solution of multistep problems.
905	Demonstrate the five bends (90, offset, 3 point saddle, 4 point saddle, kick) used for conduit raceways.	1-2-3-4-5-6 NOTE:	CRAFT & STRUCTURE GRADES 9-10-11-12	PRODUCTION & DISTRIBUTION OF WRITING	Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting

Secondary Competency Task List 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 2.0
<ul> <li>906 Demonstrate how to thread and install rigged/intermediate conduit.</li> <li>907 Demonstrate the application of construction math problems.</li> </ul>	Refer to the Common Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local Area.	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 procedureand 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.	GRADES 9-10-11-12 Standard CC.3.6.9-10.C Standard CC.3.6.11-12 C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.E Standard CC.3.6.11-12.E Use technology, including the internet, to produce, publish, and update individual or shared writing products.	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.  Standard 2.3.HS.A.3  Verify and apply geometric theorems as they relate to geometric figures.
		INTEGRATE KNOWLEDGE & IDEAS GRADES 11-12 Standard CC.3.5.11-12. G Integrate and evaluate multiple	RESEARCH GRADES 9-10-11-12 Standard CC.3.6.9-10.F Standard CC.3.6.11-12.F Conduct short and more	Standard 2.3.HS.A.13 Analyze relationships between two dimensional and three dimensional objects.

Secondary Competency Task List 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 2.0
		sources of information presented in diverse formatsto solve a problem.  Standard CC.3.5.11-12. H  Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I  Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12  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.	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.3.6.9-10.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 audiencesetc.	
1000 WIRED DEVICES.				
1001 Install a hard wired smoke detector.	CAREER CLUSTER Manufacturing Career Cluster (Choose Standards)	KEY IDEAS/DETAILS GRADES 9-10-11-12 Standard CC.3.5.9-10. A Standard CC.3.5.11-12 A	TEXT TYPES AND PURPOSE GRADES 9-10-11-12 Standard CC.3.6.9-10.A	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational
1002 Install door bell system.	1-2-3-4-5-6-7  CAREER PATHWAYS INCLUDE: Maintenance, Installation and Repair Career Pathway	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.	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.	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.

Secondary Competency Task List 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 2.0
	(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.	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 procedureand 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.	PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10-11-12 Standard CC.3.6.9-10.C Standard CC.3.6.9-10.C Standard CC.3.6.11-12 C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.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	Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.

Secondary Competency Task List 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 2.0
		IDEAS GRADES 11-12 Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12. I Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12 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.	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 audiencesetc.	
1100 TESTING EQUIPMENT.				
1101 Identify and safely use a multimeter.	CAREER CLUSTER Manufacturing Career Cluster	KEY IDEAS/DETAILS GRADES 9-10-11-12 Standard CC.3.5.9-10. A Standard CC.3.5.11-12 A	TEXT TYPES AND PURPOSE GRADES 9-10-11-12 Standard CC.3.6.9-10.A	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2
1102 Identify and safely use a continuity tester.	(Choose Standards) 1-2-3-4-5-6-7	Cite specific textual evidence, etc.  Standard CC.3.5.9-10 B	Standard CC.3.6.11-12.A Write arguments focused on	Apply properties of rational and irrational numbers to solve real world or
1103 Identify and safely use a plug in circuit tester.	CAREER PATHWAYS INCLUDE:	Standard CC.3.5.11-12. B Determine the central ideas or conclusions of a text; etc.	discipline specific content.  Standard CC.3.6.9-10.B  Standard CC.3.6.11-12.B	mathematical problems.  Standard 2.1.HS.F.4
1104 Identify and safely use a clamp on ammeter.	Maintenance, Installation and Repair Career Pathway	Standard CC.3.5.9-10.C Standard CC.3.5.11-12.C Follow precisely a complex multistep	Write informative or explanatory texts, including the narration of technical	Use units as a way to understand problems and to guide the solution of
1105 Identify and safely use a megger insulation tester.	(Choose Standards)	procedure, etc.	processes, etc.	multistep problems.

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Secondary Competency Task List 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 2.0
1106 Identify and safely use a circuit tracer.	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.	CRAFT & STRUCTURE GRADES 9-10-11-12 Standard CC.3.5.9-10. D 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 Standard CC.3.5.9-10.E Standard CC.3.5.9-10.F Standard CC.3.5.9-10.F Standard CC.3.5.11-12.F Analyze the structure of the relationships among concepts in a text, etc. Standard CC.3.5.11-12.F Analyze the author's purpose in providing an explanation, describing a procedureand 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	PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10-11-12 Standard CC.3.6.9-10.C Standard CC.3.6.9-10.C Standard CC.3.6.11-12 C Produce clear and coherent writingappropriate to task, purpose, and audience. Standard CC.3.6.9-10 D Standard CC.3.6.11-12.D Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience. Standard CC.3.6.9-10.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.3.6.11-12.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 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Standard 2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.

Secondary Competency Task List 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 2.0
		GRADES 11-12 Standard CC.3.5.11-12. G Integrate and evaluate multiple sources of information presented in diverse formatsto solve a problem. Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible. Standard CC.3.5.11-12. I Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12 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.	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 audiencesetc.	
1200 ELECTRICAL SERVICE.				
1201 Install a 100 amp overhead service.	CAREER CLUSTER  Manufacturing Career Cluster	KEY IDEAS/DETAILS GRADES 9-10-11-12 Standard CC.3.5.9-10. A		NUMBERS AND OPERATIONS Standard 2.1.HS.F.2
1202 Identify a 100 amp underground service.	(Choose Standards) 1-2-3-4-5-6-7	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		Apply properties of rational and irrational numbers to solve real world or
1203 Install a 200 amp overhead service.	CAREER PATHWAYS INCLUDE:	Standard CC.3.5.11-12. B Determine the central ideas or conclusions of a text; etc.		mathematical problems.  Standard 2.1.HS.F.4
1204 Install a 200 amp underground service.	Maintenance, Installation and Repair	Standard CC.3.5.9-10.C Standard CC.3.5.11-12.C Follow precisely a complex multistep		Use units as a way to understand problems and to guide the solution of
1205 Install a multiple meter service.	(Choose Standards)	procedure, etc.		multistep problems.  Standard 2.1.HS.F.5
1206 Install a multiple meter service with over current	1-2-3-4-5-6 NOTE:	CRAFT & STRUCTURE GRADES 9-10-11-12		Choose a level of accuracy appropriate to limitations on measurement when

protection.  Refer to the Common Career Technical Core Standards Co.3.5.1.11.2.D  Standard C.3.5.5.1.10.D  Standard C.3.5.5.1.1.2.D  Standard C.3.5.5.1.1.2.E  Analyze the structure of the relationships among concepts in a text. etc.  Standard C.3.5.1.1.2.E  Analyze the author's purpose in providing an explanation, describing a procedureand Analyze the structure of the relationships among concepts in a text.  INTEGRATE KNOWLEDGE & IDEAS  GRADES 9-10  Standard C.3.5.9-10.B  Standard C.3.5.9-10.D  Standard C.3.5.9-10.E  St	Secondary Competency Task List 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 2.0
Standard CC.3.5.11-12. G	<ul> <li>1207 Cut in a residential panel.</li> <li>1208 Perform a live service tie in.</li> <li>1209 Demonstrate knowledge of 3 phase safety disconnect switch.</li> </ul>	Career Technical Core Standards Booklet if you wish to add more Pathways to meet the needs of your local	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 procedureand  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		reporting quantities.  Standard 2.1.HS.F.6  Extend the knowledge of arithmetic operations and

	Secondary Competency Task List 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 2.0
			sources of information presented in diverse formatsto solve a problem.  Standard CC.3.5.11-12. H  Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.  Standard CC.3.5.11-12. I  Synthesize information from a range of sources into a coherent understanding.  RANGE OF READING GRADES 9-10-11-12  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.		
1300	NATIONAL ELECTRICAL CODE.				
1301	Identify the purpose of the National Electrical Code, its publisher and its source, and explain why the NEC is needed in this occupation.	CAREER CLUSTER Manufacturing Career Cluster (Choose Standards) 1-2-3-4-5-6-7	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	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	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or
1302	Demonstrate how to use the National Electrical Code Book as a reference for finding answers to questions, solutions to problems, and up to date regulations during the installation of electrical service and power transmission.	CAREER PATHWAYS INCLUDE: Maintenance, Installation and Repair Career Pathway (Choose Standards)	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.	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.	mathematical problems.  Standard 2.1.HS.F.4  Use units as a way to understand problems and to guide the solution of multistep problems.
1303	Use the NEC as a reference to questions and competencies that students perform for all electrical installations.	1-2-3-4-5-6  NOTE: Refer to the Common Career Technical Core Standards Booklet if	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,	PRODUCTION & DISTRIBUTION OF WRITING GRADES 9-10-11-12 Standard CC.3.6.9-10.C Standard CC.3.6.11-12 C	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

Secondary Competency Task List 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 2.0
	you wish to add more Pathways to meet the needs of your local Area.	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 procedureand 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 formatsto solve a problem. Standard CC.3.5.11-12. H	Produce clear and coherent writingappropriate to task, purpose, and audience.  Standard CC.3.6.9-10 D  Standard CC.3.6.9-10 D  Standard CC.3.6.11-12.D  Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.  Standard CC.3.6.9-10.E  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.	Extend the knowledge of arithmetic operations and apply to complex numbers.

	Secondary Competency Task List 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 2.0
			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.3.5.1-12.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 audiencesetc.	
1400	GREEN TECHNOLOGY.				
1401	Describe and explain the uses of wind power and solar power.	CAREER CLUSTER  Manufacturing Career Cluster (Choose Standards)	KEY IDEAS/DETAILS GRADES 9-10-11-12 Standard CC.3.5.9-10. A Standard CC.3.5.11-12 A	TEXT TYPES AND PURPOSE GRADES 9-10-11-12 Standard CC.3.6.9-10.A	NUMBERS AND OPERATIONS Standard 2.1.HS.F.2 Apply properties of rational
1402	Demonstrate knowledge of installation procedures for a wind turbine system.	1-2-3-4-5-6-7  CAREER PATHWAYS	Cite specific textual evidence, etc.  Standard CC.3.5.9-10 B  Standard CC.3.5.11-12. B  Determine the central ideas or	Standard CC.3.6.11-12.A Write arguments focused on discipline specific content. Standard CC.3.6.9-10.B	and irrational numbers to solve real world or mathematical problems.
1403	Demonstrate knowledge of installation procedures for photovoltaic systems.	INCLUDE: Maintenance, Installation and Repair Career Pathway	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.	Standard CC.3.6.11-12.B Write informative or explanatory texts, including the narration of technical processes, etc.	Standard 2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multistep problems.
1404	Demonstrate knowledge of installation procedures for a solar energy source.	(Choose Standards) 1-2-3-4-5-6	CRAFT & STRUCTURE GRADES 9-10-11-12	PRODUCTION & DISTRIBUTION OF	Standard 2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on
1405	Demonstrate knowledge of installation procedures for installing a wind energy source.	NOTE: Refer to the Common Career Technical Core Standards Booklet if you wish to add more	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	WRITING GRADES 9-10-11-12 Standard CC.3.6.9-10.C Standard CC.3.6.11-12 C Produce clear and coherent	measurement when reporting quantities.  Standard 2.1.HS.F.6  Extend the knowledge of
1406	Demonstrate knowledge of the operation of solar	Pathways to meet the needs of your local	words. Standard CC.3.5.9-10.E	writingappropriate to task, purpose, and audience.	arithmetic operations and apply to complex numbers.

Secondary Competency Task List 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 2.0
cells.	Area.	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 procedureand 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 formatsto solve a problem. Standard CC.3.5.11-12. H Evaluate the hypotheses, data, analysis, and conclusions in a technical text, verifying the data when possible.	Standard CC.3.6.9-10 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.3.6.9-10.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 &	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.

Secondary Competency Task List 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 2.0
		Standard CC.3.5.11-12. I	Standard CC.3.5.11-12.I.	
		Synthesize information from a range	Write routinely over	
		of sources into a coherent	extended time frames and	
		understanding.	shorter time frames for a	
			range of tasks, purposes and	
		RANGE OF READING	audiencesetc.	
		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.		