Graphic Communications, Other, Classification of Instructional Program (CIP) 10.0399
Units of Instruction and Task Grid Linked to Pennsylvania Core Standards

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 MANAGE JOB PRODUCTION.				
101 Perform duties associated with positive customer relations. 102 Estimate job costs. 103 Complete customer invoices. 104 Complete production information on job jacket/ticket. 105 Match job specifications with production processes. 106 Plan and coordinate production jobs. 107 Schedule resources for job production. 108 Monitor production. 109 Track incoming customer's requests.	**CAREER CLUSTER** **Arts, AV Technology and Communications Career Cluster** (Choose Standards) 1-2-3-4-5-6 **PATHWAY(S)** **Printing Technology Career Pathway** (Choose Standards) 1-2-3 **NOTE:** **Please refer to the Common Career Technical Core Standards booklet if you wish to add more Career Pathways for your local geographic 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 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 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**.	**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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		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**	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.	

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		By the end of grades 9-10, AND 11-12, read and comprehend technical texts independently and proficiently.		
200 PREPARE ART AND COPY.				
201 Demonstrate appropriate selection of font for design principle. 202 Identify the three steps in creating a layout (thumbnail, rough and comprehensive). 203 Explain the design process workflow.	**CAREER CLUSTER Arts, AV Technology and Communications Career Cluster** (Choose Standards) 1-2-3-4-5-6 **PATHWAY(S) Printing Technology Career Pathway** (Choose Standards) 1-2-3 **NOTE: Please refer to the Common Career Technical Core Standards booklet if you wish to add more Career Pathways for your local geographic 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 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 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**	**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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		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**	**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.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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		By the end of grades 9- 10, AND 11-12, read and comprehend technical texts independently and proficiently.		
300 DEMONSTRATE ELECTRONIC IMAGING.				
301 Explain how to plan for a production of products and package material. 302 Identify the various kinds of items that can be designed and produced using electronic publishing. 303 Identify the principles of color theory. 304 Illustrate the electronic production flow of print production. 305 Demonstrate appropriate usage of software for word processing, graphic, scanning and page layout. 306 Employ the use of a gauge to demonstrate ability to measure. 307 Identify display (headline) type and body (text) type by their point sizes and styles. 308 Identify the basic type styles and their uses. 309 Demonstrate letter spacing, kerning and leading. 310 Demonstrate the type arrangements: flush left, ragged right, flush right, ragged left, centered and justified. 311 Use electronic dictionary and spell checker. 312 Create a design/publication. 313 Create a full page document using current industry	**CAREER CLUSTER Arts, AV Technology and Communications Career Cluster** (Choose Standards) 1-2-3-4-5-6 **PATHWAY(S) Printing Technology Career Pathway** (Choose Standards) 1-2-3 **NOTE: Please refer to the Common Career Technical Core Standards booklet if you wish to add more Career Pathways for your local geographic 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	**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 planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.	

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standard page layout application. 314 Create a PDF file created to industry specifications. 315 Manipulate a vector image using current industry standard software. 316 Manipulate a bitmapped image using current industry standard software. 317 Identify the different file types and their uses. 318 Integrate graphics from an existing file into a page layout. 319 Define trap as it applies to digitally using a page layout. 320 Explain the CIP4 protocol and how it is used in the printing plant. 321 Identify color traps on a press sheet. 322 Produce a series of computer sketches for layouts incorporating appropriate marks. (i.e., gutters, registration marks, fold lines, etc.) 323 List types of press sheet impositions.		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.3.6.9-10.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.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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		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.		
400 ACQUIRE AND MANIPULATE IMAGES.				
401 Evaluate pixel resolution as it relates to output. 402 Demonstrate the ability to acquire electronic images from various digital devices. (i.e. scanner, digital camera, etc.). 403 Convert digital image from RGB to CMYK for production. 404 Convert a four color image to a halftone, or duotone, using standard industry software.	**CAREER CLUSTER Arts, AV Technology and Communications Career Cluster** (Choose Standards) 1-2-3-4-5-6 **PATHWAY(S) Printing Technology Career Pathway** (Choose Standards) 1-2-3 **NOTE: Please refer to the Common Career Technical Core Standards booklet if you wish to add more Career Pathways for your local geographic 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	**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 planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.	

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500 PERFORM PLATEMAKING PROCEDURES.				
501 Prepare plates (proofing for printing, process and store). 502 Make additions, deletions and repairs to plate. 503 Make plates for multicolor work. 504 Output plates with control and printer's marks.	**CAREER CLUSTER Arts, AV Technology and Communications Career Cluster** (Choose Standards) 1-2-3-4-5-6 **PATHWAY(S) Printing Technology Career Pathway** (Choose Standards) 1-2-3 **NOTE:** **Please refer to the Common Career Technical Core Standards booklet if you wish to add more Career Pathways for your local geographic 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	**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 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.

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		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.		

600 PERFORM PRESS OPERATIONS.				
601 Determine grain direction of paper. 602 Handle and jog paper stock (wire/felt, watermarks, carbonless sequence). 603 Mix and test ink for printing using ink color chart for mixing requirements. 604 Mix fountain solutions using appropriate ratios. 605 Make ready paper path for print production. 606 Make ready inking systems. 607 Make ready dampening systems. 608 Print a single color job on various stock. 609 Print a single color job two sided. 610 Compare different types of feed systems and explain their differences. 611 Print different types of impositions. 612 Define the organizations that set the printing industry standards. 613 Print a multicolor job. 614 Perform a simple, partial or full make ready on an offset press.	**CAREER CLUSTER Arts, AV Technology and Communications Career Cluster** (Choose Standards) 1-2-3-4-5-6 **PATHWAY(S) Printing Technology Career Pathway** (Choose Standards) 1-2-3 **NOTE: Please refer to the Common Career Technical Core Standards booklet if you wish to add more Career Pathways for your local geographic 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	**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 planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific	**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.

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
615 Perform major clean up and basic maintenance. 616 Install and set blanket on a press. 617 Clean and secure duplicator for downtime. 618 Evaluate print quality devices (i.e. star targets, color bars, etc.) and make needed adjustments to satisfy industry standards. 619 Describe effective viewing conditions and equipment for monitoring color accuracy. 620 Line up job according to customer proof. 621 Mount plate on duplicator to industry standards. 622 Pack blanket according to industry standards. 623 Identify all safety devices on an offset press. 624 Develop production notes in an appropriate format. 625 Identify the press systems. 626 Allocate colors to the printing units. 627 Define the difference between spot colors and process colors. 628 Set and record ink profile. 629 Identify, troubleshoot and correct print defects. 630 Analyze printed sheet and match to proof. 631 Demonstrate knowledge of paper classifications, paper properties and paper concerns in the operation press applications. 632 Make ready delivery systems. 633 Identify the difference between spot and flood varnish.		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**	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.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.	

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 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.		
700 PERFORM BINDERY OPERATIONS.				
701 Use folding equipment to produce various folding operations. 702 Perform saddle stitching and perfect binding. 703 Use packaging and shrink wrapping equipment. 704 Properly handle printed substrates. 705 Explain the importance of when stock squaring is required. 706 Perform required maintenance on paper cutter. 707 Demonstrate the operation of a collation machine. 708 Setting the staple position. 709 Set up stitching machine to customer specifications. 710 Set up for a perforating job and check with proof. 711 Set up for a numbering job. 712 Demonstrate basic paper counting techniques, such as measurement by ream marker, weight, and caliper. 713 Set up folding equipment to slit, perforate, and score. 714 Demonstrate how to set up and properly use programmable cutters. 715 Perform required maintenance on a folder.	**CAREER CLUSTER** Arts, AV Technology and Communications Career Cluster (Choose Standards) 1-2-3-4-5-6 **PATHWAY(S)** **Printing Technology Career Pathway** (Choose Standards) 1-2-3 **NOTE:** **Please refer to the Common Career Technical Core Standards booklet if you wish to add more Career Pathways for your local geographic 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,	**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 planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most	**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.

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
716 Set up and use a paper drill to produce a drilled job. 717 Set up folder according to customer specifications. 718 Set up perfect binder according to job specifications. 719 Make needed adjustments to maintain fold specifications. 720 Properly pad notepads.		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.	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.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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