

Standards Correlations

Graphic Imaging Technology II (8661)

Task	SOL Correlations
Demonstrating Personal Qualities and Abilities	
Demonstrate creativity and innovation.	English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1
Demonstrate critical thinking and problem solving.	English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1
Demonstrate initiative and self-direction.	English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8

Task	SOL Correlations
	History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate work ethic.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1
Demonstrating Interpersonal Skills	
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrating Professional Competencies	
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5

Task	SOL Correlations
	History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1
Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8
Demonstrate information-literacy skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1
Demonstrate an understanding of information security.	English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8

Task	SOL Correlations
	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10
Maintain working knowledge of current information-technology (IT) systems.	English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1

Task	SOL Correlations
	Science: 6.1, PH.1, PS.1
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1
Examining All Aspects of an Industry	
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16
Examine aspects of management within an industry/organization.	
Examine aspects of financial responsibility within an industry/organization.	
Examine technical and production skills required of workers within an industry/organization.	
Examine principles of technology that underlie an industry/organization.	
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16
Examine community issues related to an industry/organization.	History and Social Science: GOVT.16
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16
Addressing Elements of Student Life	
Identify the purposes and goals of the student organization.	
Explain the benefits and responsibilities of	

Task	SOL Correlations
membership in the student organization as a student and in professional/civic organizations as an adult.	
Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.	
Identify Internet safety issues and procedures for complying with acceptable use standards.	
Exploring Work-Based Learning	
Identify the types of work-based learning (WBL) opportunities.	
Reflect on lessons learned during the WBL experience.	
Explore career opportunities related to the WBL experience.	
Participate in a WBL experience, when appropriate.	
Practicing Safety and First Aid	
Identify the location(s) and proper use of emergency alarms, fire extinguishers, and other fire safety equipment in the facility.	English: 11.5, 12.5 History and Social Science: VUS.8, WHII.8 Science: CH.1
List the safety rules involving flammable liquids.	English: 11.6, 12.6 History and Social Science: VUS.8, WHII.8

Task	SOL Correlations
	Science: CH.1
List the steps to be taken in case of an injury in the lab.	English: 11.6, 12.6 History and Social Science: VUS.8, WHII.8 Science: CH.1
Identify the location(s) of first-aid kit(s) and eye-wash station(s).	History and Social Science: VUS.8, WHII.8 Science: CH.1
Interpret a safety data sheet (SDS).	English: 11.5, 12.5 History and Social Science: VUS.8, WHII.8 Science: CH.1
Describe personal protective equipment (PPE) where needed.	English: 11.5, 12.5 History and Social Science: VUS.8, WHII.8 Science: CH.1
Identify safety considerations when using a computer-to-plate (CTP), digital production printer, digital press, or other type of equipment.	English: 11.5, 12.5 History and Social Science: VUS.8, WHII.8
Describe safety procedures appropriate when operating various equipment.	English: 11.5, 12.5 History and Social Science: VUS.8, WHII.8 Science: CH.1

Task	SOL Correlations
Describe the approved lab dress code for safe operation, including personal protective equipment (PPE).	English: 11.5, 12.5 History and Social Science: VUS.8, WHII.8 Science: CH.1
Pass a general lab safety test with a score of 100 percent.	History and Social Science: VUS.8, WHII.8 Science: CH.1
Demonstrate compliance with approved methods for the collection and disposal or recycling of waste materials.	History and Social Science: GOVT.15 Science: CH.1
Follow instructions on warning labels.	English: 11.5, 12.5 History and Social Science: GOVT.9
Identify the safety color code.	History and Social Science: GOVT.9, VUS.8, WHII.8
Comply with school graphics lab rules and regulations.	English: 11.5, 12.5 History and Social Science: VUS.8, WHII.8 Science: CH.1
Gaining an Overview of Digital File Preparation	
Interpret production information on a job docket/ticket.	English: 11.5, 12.5
Differentiate among line art, continuous-tone images, and halftone images.	English: 11.5, 12.5
Identify basic process-color principles and kinds of four-color printing.	English: 11.5, 12.5

Task	SOL Correlations
Explain four-color printing vs. four-color process.	English: 11.3, 11.5, 12.3, 12.5
Define <i>PostScript</i> .	English: 11.3, 11.5, 12.3, 12.5
Describe word-processing, illustration, image-editing, and page-layout software.	English: 11.5, 12.5
Produce a single-color document, using desired fonts, styles, margins, indents, and tabs.	English: 11.1, 12.1
Select appropriate software for illustration, image editing, and page layout.	
Prepare a series of hand-drawn sketches or computer-generated layouts, incorporating appropriate notes and printer marks.	English: 11.2, 12.2
Define <i>removable storage media</i> .	English: 11.3, 12.3
Define <i>file transfer protocol (FTP)</i> .	English: 11.3, 12.3
Describe computer networking within a work environment.	English: 11.5, 12.5
Demonstrate the transfer of files within a network.	English: 11.5, 12.5
Describe disaster recovery file backup options.	
Demonstrate a file backup.	
Demonstrate the use of a file compression utility for file storage or transfer.	
Describe metadata.	English: 11.5, 12.5
Explain the importance of metadata in managing media files.	English: 11.5, 12.5
Use metadata for digital asset management.	English: 11.5, 12.5

Task	SOL Correlations
Define <i>preflighting</i> and <i>packaging</i> .	English: 11.3, 12.3
Demonstrate preflighting and packaging a native file, using application software and/or a manual checklist.	
Demonstrate preflighting a portable document format (PDF) file, using application software and/or a manual checklist.	
Describe a raster image processor (RIP).	English: 11.5, 12.5
Define <i>computer-to-plate (CTP)</i> .	English: 11.3, 12.3
Identify common quality issues found during the preflight process.	English: 11.5, 12.5
Create a manual checklist of possible quality issues.	English: 11.6, 12.6
Describe the use of trapping an image for print.	English: 11.5, 12.5
Describe a folding dummy for print.	English: 11.5, 12.5
Understanding Type	
Explain the role of type as a design element in graphic communications.	English: 11.5, 12.5
Measure copy/text in points, using a line gauge.	
Explain measuring and designing with type.	English: 11.5, 12.5
Identify the physical characteristics of typographic characters.	
Describe dingbats, bullets, rules, and symbols and their uses in publications.	English: 11.5, 12.5
Distinguish between display (headline) type and body (text) type by their point sizes and styles.	English: 11.5, 12.5

Task	SOL Correlations
Identify the basic type classifications and uses.	
Distinguish between serif and sans serif type styles.	English: 11.5, 12.5
Explain tracking and kerning of type characteristics.	English: 11.5, 12.5
Explain word spacing and the relation of em and en in paragraph spacing.	English: 11.5, 12.5
Explain line spacing and the measurement principles for the leading of text.	English: 11.5, 12.5
Describe type arrangements.	English: 11.5, 12.5
Explain the differences among types of fonts.	English: 11.5, 12.5
Demonstrate the loading, displaying, and organizing of fonts, using a font-management software application.	
Describe font substitution when outputting a printed page.	English: 11.5, 12.5
Assess the effectiveness of a communication piece using different applications of type.	English: 11.2, 12.2
Performing Page-Layout Functions	
Describe office/home-based software applications.	English: 11.5, 12.5
Select appropriate page-layout software for a given job.	English: 11.2, 12.2
Demonstrate the use of a digital dictionary, spell checker, and automatic hyphenation.	
Demonstrate a functional knowledge of computer	

Task	SOL Correlations
menus and palettes within industry-standard software.	
Demonstrate text alignment, element positioning, and rules of page design for printed matter.	
Proofread manuscript copy and make necessary corrections using basic proofreading marks.	English: 11.7, 12.7
Set up/select appropriate pagination for a given job.	English: 11.5, 12.5
Set text with appropriate margins, formatting, gutters, and leading.	
Import copy from a word-processing program to a page-layout program.	English: 11.2, 12.2
Produce a document using desired fonts, styles, margins, indents, tabs, and colors.	English: 11.2, 12.2
Describe a page break.	English: 11.5, 12.5
Describe widow and orphan formatting.	English: 11.5, 12.5
Demonstrate line-break formatting, including hyphenation, widow, and orphan control.	
Assess proper line and page breaks, including hyphenation, widows, and orphans in an instructor-specified page.	
Describe master pages.	English: 11.5, 12.5
Demonstrate automatic folio numbering.	
Explain the purpose of style sheets.	English: 11.5, 12.5
Identify the masthead (i.e., header and footer).	
Create a multiple page document using master	

Task	SOL Correlations
pages, automatic folios, styles (e.g., character, paragraph, and object), masthead, and graphics.	
Describe the use of a table in page layout software.	English: 11.5, 12.5
Create a document that includes tables.	
Explain the use of a graphic box in page layout software.	English: 11.5, 12.5
Proofread, edit, and adjust copy on screen.	English: 11.7, 12.7
Import an image into a page-layout program.	English: 11.2, 12.2
Demonstrate a procedure for cropping digital images.	
Create a two-sided, three-panel brochure, using graphics and text.	
Create a four-page newsletter, using windows, blocks, text, graphics, frames, headings, and imported graphics or logos.	
Define <i>variable data printing</i> .	English: 11.3, 12.3
Explain the use of variable data in a printing project.	English: 11.5, 12.5
Create a flat database with three categories in a spreadsheet application for use in a variable data project.	
Design a document that has variable data fields for text and pictures using page layout software with variable data capabilities.	English: 11.1, 11.2, 12.1, 12.2
Produce a variable data printing job on a digital press or production printer.	English: 11.1, 11.2, 12.1, 12.2

Task	SOL Correlations
Create a two-page newsletter, using drop caps for paragraph openings, wrap-arounds (runarounds), and graphics.	
Create a printed piece, using tints, reverses, and manipulated type for effect.	
Produce and output a multicolored flyer that includes at least two spot colors.	English: 11.1, 11.2, 12.1, 12.2
Demonstrate the procedures for printing a proof to a monochrome and/or color laser printer or inkjet printer, using page-layout software.	English: 11.3, 12.3
Export a press-ready PDF, using page-layout software.	English: 11.2, 12.2
Describe <i>soft proofing</i> and its advantages and disadvantages.	English: 11.5, 12.5
Performing Image Capture	
Identify the types of images used in the graphics industry.	English: 11.5, 12.5
List professional image editing software applications.	English: 11.6, 12.6
Identify types of graphics.	
Compare examples of graphic file formats and their extensions.	English: 11.5, 12.5
Explain pixels per inch (PPI) resolution (i.e., display).	English: 11.5, 12.5
Explain dots per inch (DPI).	English: 11.5, 12.5
Identify potential quality issues of improper relationships among PPI, DPI, and LPI on final	

Task	SOL Correlations
output quality.	
Describe color bit depth.	English: 11.5, 12.5
Create correct depth and resolution files of line art and continuous-tone images using a scanner.	English: 11.2, 12.2
Describe various camera components and settings used while capturing images.	English: 11.5, 12.5
Explain the use of optical character recognition (OCR).	English: 11.5, 12.5
Use OCR software to capture printed text.	English: 11.2, 12.2
Capture a digital image using a scanner and another image-capture device.	English: 11.2, 12.2
Describe International Color Consortium (ICC) profiles and their use.	English: 11.5, 12.5
Demonstrate the ability to color-convert RGB images into CMYK using ICC profiles.	
Demonstrate the importing of scanned digital images into page-layout software.	
Download a digital image from a free stock photography website; resize and resample according to specifications.	
Exploring Photo Imaging Software	
Describe the use of layers, selections, and channels in an image editing software program.	English: 11.5, 12.5
Use layers, selections, and channels to edit a color photograph in an image editing software program.	English: 11.2, 12.2

Task	SOL Correlations
Describe image cloning.	English: 11.5, 12.5
Use an image editing software program to perform image cloning.	
Describe unsharp masking.	English: 11.5, 12.5
Use an image editing software program to perform varying degrees of unsharp masking.	
Explain capabilities of adjusting contrast (i.e., tone reproduction) in an image editing software program.	English: 11.5, 12.5
Use an image editing software program to perform contrast adjustments (tone reproduction) on a color image.	
Understanding Color Management	
Describe capabilities of adjusting color balance (gray balance) in an image editing software program.	English: 11.5, 12.5
Use an image editing software program to perform color balance (gray balance) adjustments on a color image.	
Describe the role of color management in a print workflow.	English: 11.5, 12.5
Describe color management techniques used in different steps of a print workflow.	English: 11.5, 12.5
Compare color gamut capabilities of devices used in a print workflow.	English: 11.5, 12.5
Explain the use of an ICC profile in a print workflow.	English: 11.5, 12.5

Task	SOL Correlations
Describe conversion limitations of the RGB color model to the CMYK color model.	English: 11.5, 12.5
Describe under color removal (UCR).	English: 11.5, 12.5
Describe gray component replacement (GCR).	English: 11.5, 12.5
Demonstrate calibration of a color monitor to manufacturer's specifications.	
Demonstrate calibration of a color proofer to manufacturer's specifications.	
Working with Illustration Software	
List the capabilities of professional illustration software applications.	English: 11.6, 12.6
Convert a bitmap image to a vector.	
Demonstrate the use of keyboard shortcuts/menus.	
Create a design appropriate for a given job, using an illustration program.	English: 11.1, 12.1
Create a design using tints and fills for a given job, using an illustration program.	English: 11.1, 12.1
Create a design using manipulated type (e.g., rotated, circled, extended) for a publication.	English: 11.1, 12.1
Trace a drawing/photograph, using an illustration program.	
Edit an existing piece of electronic clip art.	English: 11.3, 11.7, 12.3, 12.7
Describe the PDF.	English: 11.5, 12.5
Explain why PDF has become an integral part of the printing industry.	English: 11.5, 12.5

Task	SOL Correlations
List the advantages and disadvantages of PDF.	English: 11.6, 12.6
Demonstrate how to make changes to an existing PDF file.	
Explain the various methods in which PDFs are created.	English: 11.5, 12.5
Demonstrate how to import a PDF of an InDesign file.	
Distinguish among a PDF, PDF/X-1a, and PDF/X-3 file.	
Describe the differences among a press-quality PDF, a print-quality PDF, and the smallest-file size PDF.	English: 11.5, 12.5
Digital File Output	
Output to Fiery Digital Print Solutions–EFI.	
Output to a wide-format printer.	
Output to digital production printers (i.e., black-and-white and color copiers).	
Output to a sublimation printer.	
Output to a direct-to-garment printer or embroidery machine.	
Output to a cutting plotter.	
Compare direct to plate vs. direct to press.	English: 11.5, 12.5
Describe the characteristics of plate material for offset printing.	English: 11.5, 12.5
Describe the capabilities, specifications, and functions of a platesetter.	English: 11.5, 12.5

Task	SOL Correlations
Create a flowchart of workflow steps when outputting to an offset press.	English: 11.6, 12.6
Create a flowchart of workflow steps when outputting to digital press.	English: 11.6, 12.6
Describe a print queue.	English: 11.5, 12.5
Explain how print queues can be optimized by a digital press operator.	English: 11.5, 12.5
Identify quality control marks.	
Explain tone value increase (TVI) and its effect on printed materials.	English: 11.5, 12.5
Describe quality control measurement devices.	English: 11.5, 12.5
Describe print lab quality process control SOP.	English: 11.5, 12.5
Describe print industry specifications.	English: 11.5, 12.5
Understanding Mathematics and Measurement	
Solve the division of two- and three-digit decimal problems.	
Solve decimals-to-percent conversion problems.	
Solve basic linear measurement problems.	