

VoCATS

Course Blueprints

Trade and Industrial Education

7912 Printing Graphics II

*Public Schools of North Carolina
State Board of Education • Department of Public Instruction
Office of Instructional and Accountability Services
Division of Instructional Services*

*Raleigh, North Carolina
Winter 2004*

Special thanks to the following educators and business people who reviewed and approved this blueprint for technical content and appropriateness for the industry.

<i>Scarlett Daugherty</i>	<i>Highland School of Technology</i>
<i>Peggy DeBruhl</i>	<i>Garner High School</i>
<i>Bob Dickerson</i>	<i>Red Education Consulting Services</i>
<i>Brad Donnell</i>	<i>Linprint Company</i>
<i>Cari Goree</i>	<i>AC Reynolds High School</i>
<i>Peggy Howell</i>	<i>PICA</i>
<i>Al Masciotti</i>	<i>Emsley A. Laney High School</i>
<i>Tim McCluskey</i>	<i>Richmond High School</i>
<i>Erwin Springs</i>	<i>Garinger High School</i>
<i>Jeff Stoudt</i>	<i>PICA</i>
<i>Aaron Tucker</i>	<i>Hibriten High School</i>
<i>Jim Vuncannon</i>	<i>Harris Printing Company</i>
<i>Audrey Webb</i>	<i>Daniels Graphics</i>
<i>Shirley Wedra</i>	<i>Belk Printing Technologies</i>
<i>Carl White</i>	<i>Hendersonville High School</i>

12/1/98

VoCATS Course Blueprint

A course blueprint is a document laying out the framework of the curriculum for a given course.

Shown on the blueprint are the units of instruction, the core competencies in each unit, and the specific objectives for each competency. The blueprint illustrates the recommended sequence of units and competencies and the cognitive and performance weight of the objective within the course.

The blueprint is intended to be used by teachers in planning the course of work for the year, preparing daily lesson plans, and constructing instructionally valid assessments.

For additional information about this blueprint, contact program area staff. For additional information about the VoCATS Competency Achievement Tracking System, contact program area staff or VoCATS, Workforce Development, Division of Instructional Services, North Carolina Department of Public Instruction, 301 North Wilmington Street, Raleigh, North Carolina 27601-2825, 919/807-3876, email: rwelfare@dpi.state.nc.us.

Interpretation of Columns on VoCATS Course Blueprints

No.	Heading	Column information
1	Comp# Obj.#	Comp=Competency number (three digits); Obj.=Objective number (competency number plus two-digit objective number).
2	Unit Titles/Competency and Objective Statements	Statements of unit titles, competencies per unit, and specific objectives per competency. Each competency statement or specific objective begins with an action verb and makes a complete sentence when combined with the stem "The learner will be able to. . ." (The stem appears once in Column 2.) Outcome behavior in each competency/objective statement is denoted by the verb plus its object.
3	Time Hrs	Space for teachers to calculate time to be spent on each objective based on the course blueprint, their individual school schedule, and the students' performance on preassessments.
4&5	<u>Course Weight</u> Cognitive Performance	Shows the relative importance of each objective, competency, and unit. Weight is broken down into two components: cognitive and performance. Add the cognitive and performance weights shown for an objective in columns 4 and 5 to determine its total course weight. Course weight is used to help determine the percentage of total class time that is spent on each objective. The VoCATS Annual Planning Calendar shows how to use the course weight to determine the approximate number of days to be devoted to each objective. The breakdown in columns 4 and 5 indicates the relative amount of class time that should be devoted to cognitive and performance activities as part of the instruction and assessment of each objective. Objectives with performance weight should include performance activities as part of instruction and/or assessment.
6	Type Behavior	Classification of outcome behavior in competency and objective statements. (C=Cognitive; P=Psychomotor; A=Affective)
7	Integrated Skill Area	Shows links to other academic areas. Integrated skills codes: A=Arts; C=Communications; CD=Career Development; CS=Information/Computer Skills; H=Health and Safety; M=Math; SC=Science; SS=Social Studies.
8	Core Supp	Designation of the competencies and objectives as Core or Supplemental. Competencies and objectives designated "Core" must be included in the Annual Planning Calendar and are assessed on the statewide pre- and postassessments..

Workforce Development Education conducts all activities and procedures without regard to race, color, creed, national origin, gender, or disability. The responsibility to adhere to safety standards and best professional practices is the duty of the practitioners, teachers, students, and/or others who apply the contents of this document.

TRADE AND INDUSTRIAL EDUCATION
COURSE BLUEPRINT FOR 7912 PRINTING GRAPHICS II
 [Recommended hours of instruction: 270-360]

Comp# Obj.#	Unit Titles / Competency and Objective Statements (The student will be able to☺)	Time Hrs.	Course Weight		Type Behavior	Integrated Skill Area	Core Supp
			Cognitive	Performance			
1	2	3	4	5	6	7	8
			100%				
	Total Course Weight		48%	52%			
	A. LEADERSHIP		1%	2%			
G201.	Demonstrate communication, problem solving, and team building skills.		1%	2%	C3P	C/SS	Core
G201.01	<i>Demonstrate communication skills.</i>		1%	1%	C3P	C/SS	Core
G201.02	<i>Demonstrate problem solving and team building skills.</i>			1%	C3P	C	Core
	B. LAB SAFETY		5%	1%			
G202.	Demonstrate safety procedures.		5%	1%	C3P	C/H/SC	Core
G202.01	<i>Identify terms, definitions, rules, personal protective equipment, OSHA expectations, classes of fires, and MSDS related to shop safety.</i>		3%		C1	C/H/SC	Core
G202.02	<i>Explain approved methods to dispose of waste materials.</i>		1%		C2	SC	Core
G202.03	<i>Demonstrate safe shop procedures and equipment operation.</i>		1%	1%	C3P	H/SC	Core
G202.04	<i>Follow local classroom rules and procedures.</i>				C3P	C/H	Supp
	C. PRINTING BUSINESS BASICS		5%				
G203.	Apply basic printing business procedures.		5%		C3	C/M	Core
G203.01	<i>Plan a production job.</i>		3%		C3	C/M	Core
G203.02	<i>Solve printing math and measurement problems.</i>		2%		C3	M	Core
	D. DIGITAL FILE PREPARATION		12%	28%			
G204.	Demonstrate various digital file preparation methods.		11%	27%	C3P	A/C/CS	Core
G204.01	<i>Identify terms and definitions.</i>		5%		C1	C/CS	Core
G204.02	<i>Demonstrate page layout programs.</i>		1%	14%	C3P	A/C/CS	Core
G204.03	<i>Demonstrate digital input operations.</i>		1%	2%	C3P	A/C/CS	Core
G204.04	<i>Demonstrate drawing programs.</i>		1%	1%	C3P	A/C/CS	Core
G204.05	<i>Demonstrate image manipulation programs. Adobe Photoshop</i>		1%	9%	C3P	A/C/CS	Core
G204.06	<i>Explain preflighting.</i>		2%		C2	C/CS	Core
G204.07	<i>Demonstrate file management software. Adobe Acrobat PDF</i>			1%	C3P	C/CS	Core
	G205. Demonstrate image assembly and platemaking procedures.		1%	1%	C3P	A/M/SC	Core
G205.01	<i>Demonstrate advanced image assembly procedures.</i>				C3P	A/C/CS	Supp

1	2	3	4	5	6	7	8
G205.02	Strip negatives using ruled or unruled masking sheets.				C3P	A/M	Supp
G205.03	Strip flats using a pin register system.				C3P	A/M	Supp
G205.04	Produce a plate.		1%	1%	C3P	SC	Core
E.	OFFSET PROCEDURES AND OPERATIONS		15%	18%			
G206.	Demonstrate duplicator operations.		15%	18%	C3P	A/C/SC	Core
G206.01	Review basic parts and systems of duplicators.		13%		C1	C/SC	Core
G206.02	Produce single color and multi-color jobs on various substrates.		1%	13%	C3P	A/C/SC	Core
G206.03	Perform cleanup, maintenance, and troubleshooting procedures on duplicators.		1%	5%	C3P	SC	Core
F.	FINISHING AND BINDING OPERATIONS		2%	3%			
G207.	Demonstrate basic finishing and binding operations.		2%	3%	C3P	A/SC	Core
G207.01	Demonstrate finishing operations.		1%	2%	C3P	A/SC	Core
G207.02	Demonstrate binding operations.		1%	1%	C3P	SC	Core
G.	SCREEN PRINTING		6%				
G208.	Produce a screen printed product.		6%		C3P	A/C	Core
G208.01	Identify materials and equipment used in screen printing.		3%		C1	A/C	Core
G208.02	Identify products and processes.		3%		C1	C	Core
G208.03	Demonstrate the screen printing process.				C3P	A	Supp
H.	FLEXOGRAPHY		2%				
G209.	Demonstrate flexographic printing processes.		2%		C3P	C/SC/SS	Core
G209.01	Identify the equipment and materials used in flexography.		2%		C1	C	Core
G209.02	Identify procedures associated with the flexographic printing process.				C1	SC	Supp
G209.03	Identify market segments and products of the flexographic industry.				C1	SS	Supp
G209.04	Demonstrate various flexographic printing processes.				C3P	SC	Supp