

**PROPOSED REGULATION OF THE
STATE BOARD OF EDUCATION**

LCB File No. R024-12

March 29, 2012

EXPLANATION – Matter in *italics* is new; matter in brackets ~~[omitted material]~~ is material to be omitted.

AUTHORITY: §§1 and 2, NRS 385.080 and 385.110.

A REGULATION relating to education; prescribing the performance standards for a course of study in graphic communications and production; repealing the course of study in graphic arts and printing; and providing other matters properly relating thereto.

Section 1. Chapter 389 of NAC is hereby amended by adding thereto a new section to read as follows:

A course of study in graphic communications and production must be designed so that pupils meet the following performance standards by the completion of the final course of instruction:

1. For the area of graphic communications and production industry:

(a) Understand the importance of the history of that industry;

(b) Understand the concept of the workflow process;

(c) Understand the types of careers and the prospects for employment available in that industry;

(d) Demonstrate an understanding of the principles of entrepreneurship;

(e) Demonstrate proficiency in the standard mathematical concepts used in that industry;

and

(f) Effectively estimate all costs associated with a graphic communications and production project.

2. For the area of advertising and design:

(a) Demonstrate knowledge of copyright and intellectual property laws related to the graphic communications and production industry;

(b) Demonstrate knowledge of typography and its application;

(c) Demonstrate various techniques for page layouts using a variety of graphic communications and production applications;

(d) Identify and apply the elements and principles of design; and

(e) Understand the importance of selecting a substrate as it relates to design.

3. For the area of creation of a digital file:

(a) Demonstrate and use standard software applications of the graphic communications and production industry for design;

(b) Compare and contrast a variety of file formats and their uses and applications;

(c) Understand and use various techniques for capturing digital images;

(d) Understand how to create a digital image;

(e) Understand how to use portable document format files; and

(f) Use the appropriate software to preflight files.

4. For the area of sending digital files to output devices:

(a) Identify, select and operate the appropriate output device;

(b) Describe and apply imposition techniques;

(c) Perform basic maintenance on output devices; and

(d) Demonstrate knowledge of digital production printing.

5. *For the area of offset press operations:*

(a) *Identify and perform offset press operations;*

(b) *Explain the functions of a lithographic plate;*

(c) *Identify and explain the basic systems of an offset press;*

(d) *Perform proper make-ready procedures;*

(e) *Differentiate between the uses of single-color and multi-color printing presses; and*

(f) *Demonstrate the proper maintenance procedures for offset presses.*

6. *For the area of screen print technology:*

(a) *Understand and demonstrate the processes of screen print technology and the production of screen prints;*

(b) *Understand frames and the processes of screen preparation;*

(c) *Select and apply the appropriate stencil system;*

(d) *Print a substrate using proper screen printing techniques; and*

(e) *Practice the proper procedures for cleanup and maintenance.*

7. *For the area of binding and finishing operations and equipment, understand the appropriate procedures for binding.*

8. *For the area of environmental health, safety and first-aid procedures:*

(a) *Identify and follow appropriate environmental health, safety and first-aid procedures;*

(b) *Demonstrate knowledge of the requirements and opportunities that are available for recycling and reusing in the community in which the pupil lives;*

(c) *Understand the laws and regulations governing the graphic communications and production industry, including, without limitation, local laws and regulations, and any rules*

or regulations of the United States Environmental Protection Agency and the Occupational Safety and Health Administration of the United States Department of Labor;

(d) Demonstrate knowledge of material safety data sheets;

(e) Understand the emergency procedures of the classroom and the school in which the pupil is enrolled, including, without limitation, the applicable emergency plan; and

(f) Demonstrate the proper use of personal protective equipment.

Sec. 2. NAC 389.604 is hereby repealed.

TEXT OF REPEALED SECTION

389.604 Graphic arts and printing. (NRS 385.080, 385.110) A course of study in graphic arts and printing must include instruction designed to teach the pupil to do the following:

1. Identify different styles of letters.
2. Operate equipment for a bindery.
3. Set up and operate an efficient darkroom.
4. Prepare a basic layout.
5. Operate a system of platemaking.
6. Operate a single and two offset presses with one or two colors.
7. Produce halftones in a variety of sizes.