

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: GAT-XXX 231 Department: Graphic Arts Technology

Course Title: Screen and Vinyl Printing Semester: Fall Year: 2016

Objectives/Competencies

Course Objective	Competencies
1. Students will demonstrate a working knowledge of the Screen Printing and Vinyl	1. Identify the screen printing and vinyl printing process 2. Advantages of screen printing vs offset printing. A. Size of image, B. Type substrate, C. Four color process D. Special Inks, E. Cost of equipment. 3. Software to design application for screen and vinyl printing. 4. Working knowledge of the components of screen printing press. A. Frame, B. Mesh, C. Squeegee blade 5. Direct to screen. 6. Describe the workflow steps of screen printing process. A. File creation, B. File output, C. Mounting screen on press. D. Print production, F. Clean up.

Course Objective	Competencies
<p>2. Design and Prepress</p>	<ol style="list-style-type: none"> 1. Describe different types graphics used in screen printing. <ol style="list-style-type: none"> A. Line art, B. Continuous tone, C. Raster, and D. Vector. 2. Define Pixels per inch resolution (screen display). 3. Define Dots Per Inch 4. Define Lines Per Inch Resolution (Printing Press). 5. Describe an Encapsulated PostScript. Explain the use EPS File. 6. Proper paper set-up 7. Define Trapping. 8. Define Knockout 9. Define Overprint. 10. Define registration 11. Describe a frame, stencil and mesh 12. Describe job ticket/document 13. Determine Job specifications from job ticket/ jacket 14. Produce a final proof to match job ticket specifications. 15 Produce a positive film for stencil exposure. 16. Define direct to screen 17. Produce a file for direct-to-screen
<p>3. Stencil and Screen Preparation</p>	<ol style="list-style-type: none"> 1. Specify the workflow steps used to make a screen 2. Describe emulsion used to make screen. 3. Explain the use of emulsion when making a screen. 4. Describe requirements to prepare the screen for stencil application. 5. Demonstrate proper drying requirements of the screen.

Course Objective	Competencies
<p>4. Print Production</p>	<ol style="list-style-type: none"> 6. Specify the possible defects that will affect the quality of print. 7. Evaluate a stencil for quality defects 8. Demonstrate the proper step of masking a stencil for production use. <ol style="list-style-type: none"> 1. Describe characteristics of a squeegee used A. Durometer, B. Shape, C. Width 2. Demonstrate the proper choice of squeegee for a specific job. 3. List the type of inks used in screen printing 4. Demonstrate confirmation of correct ink specifications for a job ticket 5. Describe the alignment of screen for proper registration. 6. Drying system, A. Flash, B. Conveyor dryer.
<p>5. Clean-up Process</p>	<ol style="list-style-type: none"> 1. Read safety sheet 2. Demonstrate proper way to use chemicals 3. List workflow steps used during cleaning. 4. Describe use of reusing screens

Course Objective	Competencies
6. Vinyl Cutting	<ol style="list-style-type: none">1. Types of equipment for vinyl2. Different types of materials3. Application to design to vinyl cut outs.4. Applied to directs surface.