SkillsUSA

National Leadership and Skills Conference
Graphics Imaging - Sublimation Performance
Testing Plan
June 21-22, 2017
SkillsUSA 2017
Graphics Imaging - Sublimation
Performance Test Plan

Kentucky Exposition Center
Louisville, KY

June 21-22, 2017

General Information for
Technical Committee Members
Judges
State SkillsUSA Directors
Graphic Arts Instructors
And
Contestants
SkillsUSA 2017  
Graphics Imaging – Sublimation

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I. Performance Test Chair and Co-Chair Responsibilities
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   B. Reviews floor plans for performance test
   C. Coordinates acquisition of equipment and supplies
   D. Identifies and appoints judges
   E. Assigns local committee members a list of needed supplies to have on hand on the
day of the performance test: staples, pencils, marking pens, paper, and other
consumable items
   F. Arrange for security of performance testing area the evening before the day of the
competition

II. Technical Committee Responsibilities
   A. Selects competencies to be tested
   B. Develops rating sheets
   C. Completes preliminary instructions (scenario) and information sheets
   D. Determines number of judges needed
   E. Obtains names and addresses of judges
   F. Determines materials, supplies, tools, and equipment needs for the performance
test and identifies probable sources
   G. Prepares a complete set of instructions in the form of scenarios
   H. Determines the layout for the performance test area
   I. Sets a time schedule for contestants

III. Education Committee Responsibilities
   A. Work with the technical committee to protect the validity of the performance test
   B. Reviews performance test content for accuracy and relevancy

IV. Judges Responsibilities
   A. Judges must attend an orientation session prior to the start of the performance test.
   Contestants should be allowed to become familiar with the competency testing
station regarding the instructions in the performance test scenario.
SkillsUSA 2017
Graphics Imaging - Sublimation

Judges Responsibilities

1. Judges must be completely familiar with the SkillsUSA Championships Technical Standards, particularly the General Regulations, Instructions to Technical Committee Chairs, and the specific rules to the contest they have been asked to judge.

2. Judges should receive copies of the contest project and judges’ rating sheet(s), along with complete instructions from the technical committee chair prior to the competition.

3. Members of the SkillsUSA Championships technical committee may not serve as judges unless approved by the SkillsUSA Championships director.

4. Judges must give careful attention to each rule, and each contestant or entry must be judged in exactly the same manner and under the same conditions as every other contestant or entry.

5. Judges will meet prior to the SkillsUSA Championships, at a time and place announced by the SkillsUSA Championships technical committee chair to confer on:
   a. Rules meanings and interpretations
   b. Room arrangements
   c. Materials and equipment
   d. Last-minute details
   e. Rating sheets

6. Judges will evaluate the performance of each contestant according to criteria listed for each contest.

7. Judges will identify contestants by number only. Judges will not use contestants’ names, schools or state unless otherwise specified in individual contest rules.

8. Judges may attend the contest orientation meeting held prior to the opening of the SkillsUSA Championships. However, only members of the technical committee may instruct the contestants and verify attendance.

9. Judges are selected because of their recognized expertise in the trade or skill that they are being asked to judge and are asked to follow the official SkillsUSA rules without inserting personal opinions. Such things as length of hair, length of dress and style of shoe, unless specifically covered in the contest regulations, are not to be considered by the judges except where safety is considered.

10. In no instance are judges or contest chairs authorized to change the contest rules. If an interpretation is required, the chair should contact the SkillsUSA Championships director.

11. Judges are to evaluate all items related to safety. Contestants not meeting safety requirements in clothing and/or devices may be disqualified from competition if, in the judges’ opinions, the safety of the contestants or those around them is endangered.

12. Judges should rate contestants on the basis of entry-level job skills. Judges should rate each contestant independently and not compare rating sheets with those of other judges.

13. Judges should rate contestants against a standard of performance rather than automatically awarding first-, second-, or third-place medals to the highest-ranking competitors. It is not necessary to award a medal if the standard of performance does not justify such recognition.

14. After the judging is completed, judges should total their own rating sheets and return them, along with any notes and other pertinent information, to the SkillsUSA Championships technical committee chair.

15. The judges and technical committee members will keep all results confidential until the general announcement of winners is made at the Awards Ceremony. Under no circumstances may judges discuss contest results or contestants’ performance with contestants, chapter advisors or any observer.

16. Judges should refer all contest inquiries or problems that arise to the SkillsUSA technical committee chair.

In keeping with a tradition of respect for the individuality of our members and our role in work force development, SkillsUSA strives to ensure inclusive participation in all of our programs, partnerships and employment opportunities.

SkillsUSA 2016
Graphics Imaging - Sublimation
Contestant Information Sheet

A. Purpose
To assess the graphic imaging - sublimation printing contestant’s preparation for employment and to recognize outstanding contestants for excellence and professionalism in the field of graphic imaging.

B. Clothing Requirements
Established by the SkillsUSA general contest requirements.
An apron or smock is optional. Contestants should consider safety glasses with side shields, ear protection and latex gloves in some of the operational areas.

C. Eligibility
Open to all active SkillsUSA members enrolled in technical education programs that teach graphic communications skills.

D. Tools
Needed tools will be provided at each competency testing station. Contestants may use rulers, rags, optical devices, markers, and other items that they feel will enhance their performance.

E. The SkillsUSA Graphic Imaging - Sublimation Scorecard lists seven items that will not be evaluated during the current competition.
- Print on a glass surface (cutting board)
- Print on hard board (basketball goal)
- Print on polyester knit (t-shirt)
- Print on stone (subli-slate)
- Print on fiberglass reinforced plastic (FRP) signs
- Print on pennant (car flag)

Therefore, points for each of these seven evaluation items will be recorded on the Graphic Imaging - Sublimation Printing Scorecard for every Contestant.

The Assignment and Rating Sheets for these seven performance-testing areas are included in this Performance Test Plan. The sheets have been included in this plan because Graphics Communications Students and Instructors may wish to refer to these sheets at some future time when Graphic Imaging - Sublimation Printing performance testing procedures are needed at a local, district, state or National Competition.
1. Contestants will demonstrate their abilities to perform the duties and tasks that pertain to the following list of items that may be evaluated. The precise number of duties and tasks required for a valid performance of a Graphic Imaging - Sublimation Printing process will be determined by a technical committee. **Contestant skill levels** will be evaluated by the performance test judges.
   A. Create a Digital Image Design
   B. Print an Image Transfer
   C. Print a Mosaic on Tiles
   D. Print a graphic on mugs using a mug press, also mug wraps and a convection oven.
   E. Print on a mouse pad and license plate.
   F. Inspect decorated products for quality control
   G. Take a written technical knowledge test
   H. Participate in an oral professional assessment and submit a résumé to judge.

2. This list of items that may be evaluated is taken from the Graphic Imaging - Sublimation Scorecard. As listed on the Screen Printing Technology Scorecard each of the **nine** evaluation items listed above have an attending number of possible points. Performance testing station checklists may generate points in more than one of the **nine** evaluation areas. (Example: Printing on mugs or ceramic tiles will test some identical graphics imaging sublimation printing skills. Testing of identical skills will contribute points to a composite score on the Graphic Imaging - Sublimation Scorecard.)

A. **Create a Digital Image Design**
   Create a folder on the flash drive with the following name, replacing X with your contestant number: GIS_Content_ContestantX
   Select one of the digital images from the flash drive.
   Save the image to your contestant folder with the following name, replacing X with your contestant number: GIS_Cest _Contestant X Photo.PSD.
   Create Mosaic Tile design with Adobe Photoshop.
   Reset All Tools and view rulers in inches.
   Create the four (4. 25” x 4. 25”) ceramic tiles, side by side, horizontal orientation.
   Photoshop file, CYMK, 300dpi.
   Save the file in your contestant folder with the following name replacing X with your contestant number: GIS_Cest _Contestant X tile design.PSD.
   Include required elements & techniques (each element on individual layer).
   Type one or more words with:
   - minimum of sz20pt.
   - Emboss w/130 depth, size 24px
   - Outer glow with screen, opacity-75, spread-20, size-50
   Place digital image from your contestant folder.
   Place CMYK SkillsUSA logo from provided Flash Drive.
   Type one or more WARPed words with: Shell-upper, Bend-50%.
   Type one word (reversed type) (light color type against a dark color ).
   Use a Pantone Coated color in design.
B. Print an Image Transfer
Open your Tile Design File: GIS_Counter _Contestant X tile design.PSD.
Select snap to guides, add new vertical-guides at 4-1/4”, 8-1/2” and 12-3/4”
Reposition important image parts away from tile breaks.
Select the rectangular marquee tool to fixed ratio and size to 4-1/4” x 4/-1/4”
Draw the marquee box, snapping to the first vertical guide.
Copy selection and paste it to a new file.
Change image size by adding 1/8” to both dimensions.
Use image rotation to flip canvas horizontal.
Save file as A1 and deselect selection.
Repeat copy selection and save file for the remaining three tile segments (A2, A3, A4).
Select “mirror image” in printer properties
Print files to sublimation printer.

C. Print a Mosaic Tile
Preheat heat press to 400 degrees.
Set timer for 8 to 10 minutes.
Adjust the press for medium pressure.
Place the sublimation transfer on the work bench face up.
Place tiles face down on the transfer
Measure and cut image transfer to fit tile.
Note: Transfer should be slightly bigger than the tiles.
Use heat tape to tape tiles to sublimation transfer.
Note: Image transfer will be taped to the tiles face to face.
**LABEL** each tile with contestant number and A1 thru A4, using black marker.
Lay 5/8 inch Nomex felt pad on heat press bottom platen.
Place a piece of protective Teflon sheet atop Nomex pad.
Place transfer face up and tiles face down on Teflon sheet.
Place a second Teflon sheet atop the transfer and tiles.
Check heat press timer for an 8 to 10 minute dwell.
Check heat press temperature for 400 degrees.
Close the heat press.
Heat press tiles, medium pressure, 400°, 8 to 10 min., plus 1 min. for each additional tile.
Use gloves to remove tiles, tape and sublimation paper-ASAP (**LET TILES COOL**).
General area clean up.
Hand-in digital photograph jump drive with the four tiles to the judge.
Overall quality of the heat press process.
Returning to your seat indicates you are finished.

D. Print a graphic on mugs using a mug press
**Item will not be evaluated at the national level in 2017.**
Measure and cut the image transfer to fit the mug.
Position image transfer on mug.
Tape the transfer to the mug with heat resistant tape.
Place the mug in the press with the handle facing out.
Close the press (the handle will lock into place when closed) to start the timer.
Open press when the timer sounds (4 minutes) and remove mug.
Remove heat tape from transfer and peel paper from the mug.
Print a graphic on mugs using a wrap and a convection oven
Item will not be evaluated at the national level in 2017.
Measure and cut the image transfer to fit the mug.
Position image transfer on mug.
Tape the transfer to the mug with heat resistant tape.
Install mug wrap to firmly press image transfer to mug surface.
Place the mug and image transfer in the convection oven.
Heat the mug and transfer to 400 degrees for 12 to 14 minutes.
Put on oven glove before removing hot mug from the convection oven.
Remove the transfer from the mug before in sticks.
Stop the dye sublimation by dipping the mug in room temperature water.
Place the printed mug on a cooling table to dry.
Inspect the mug Transfer material that did not peel off.

E. Print on a mouse pad
Item will not be evaluated at the national level in 2017.
Position image transfer on mouse pad.
Secure with heat transfer tape if necessary.
Place first Teflon sheet on heated transfer press.
Place image transfer and mouse pad on the Teflon sheet.
Place second Teflon sheet on top of the image transfer.
Heat the image transfer and mouse pad to 400 degrees for 40 seconds.
Open heat transfer press and safely remove hot Teflon sheets and mouse pad.
Place mouse pad on a cool surface to stop dye sublimation.
Remove heat transfer tape and image transfer from mouse pad before it sticks.
Inspect the mouse pad transfer material for peeling.
Inspect the mouse pad for image transfer material that did not peel off.

F. Print on a metal surface (license plate)
Remove the protective film from the license plate.
With license plate face up on a table, position transfer face down on license plate.
Tape transfer and license plate together.
Place Teflon sheet on heat press lower platen.
Place another Teflon sheet atop license plate and transfer.
Check heat press timer for 1 minute 45 seconds dwell.
Check heat press temperature for 400 degrees and close the heat press.
Press license plate and transfer until the timer alarm sounds.
Remove tape and peel transfer from license plate.

G. Print on a glass surface (cutting board)
Measure and cut the image transfer to fit the glass cutting board.
Position transfer and cutting board on the heat press.
Apply heat resistant tape to hold transfer and cutting board in position.
Press cutting board and transfer until the timer alarm sounds.
Open the heat press, wearing gloves.
Remove the glass cutting board from heat press.
Remove heat resistant tape and peel transfer paper from glass cutting board.
H. Print on hard board (basketball goal)
   Item will not be evaluated at the national level in 2017.
   Place heat tape to hold sublimation transfer and hard board together.
   Close the heat press.
   Press tile and transfer until the timer alarm sounds.
   Open the heat press, **wearing gloves**.
   Remove heat resistant tape and peel transfer paper from tile.
   Place the hard board on a cool surface and let it air cool.

I. Print on polyester knit (t-shirt)
   Place shirt on heat press.
   Position transfer face down on shirt within vertical tolerance below shirt collar.
   Use heat transfer tape to attach the transfer to shirt.
   Close the heat press.
   Press shirt and transfer until the timer alarm sounds.
   Open heat press remove tape and peel transfer paper from shirt promptly.

J. Print on stone (subli-slate)
   Item will not be evaluated at the national level in 2017.
   Position transfer and stone on the heat press.
   Apply heat resistant tape to hold the sublimation transfer and stone in position.
   Close the heat press.
   Press stone and transfer until the timer alarm sounds.
   Open the heat press, **wearing gloves**.
   Remove heat resistant tape and peel transfer paper from stone.

K. Print on fiberglass reinforced plastic (FRP) signs
   Item will not be evaluated at the national level in 2017.
   Place the FRP sign blank and transfer on heat press.
   Close the heat press.
   Press FRP sign blank and transfer with medium pressure.
   Open press when timer alarm sounds.
   Peel transfer from the FRP sign blank which has a transferred image.
   Place the FRP sign on a cool surface and let it air cool.

L. Print on pennant (car flag)
   Item will not be evaluated at the national level in 2017.
   Put car flag and transfer on the heat press, transfer on top face down.
   Close the heat press.
   Press car flag and transfer with medium pressure.
   Open the heat press when the timer alarm sounds.
   Place car flag on counter and let it cool.

M. Quality Control Problem
   Study image technical specifications.
   Study the quality assurance worksheet scenario and inspection steps.
   Inspect a quality assurance sample of five printed images.
N. Take a written technical knowledge test
   Answer a minimum of 25 multiple-choice graphics imaging sublimation questions.
   Complete the test in the allotted thirty (30) minutes.

O. Participate in an oral professional assessment
   Submit a résumé to an interviewer.
   Communicate in a job interview setting, which requires technical
   knowledge, career objective, professional judgment, and courtesy.

   When a contestant has completed an assigned job, the contestant is to be seated in a chair
   placed at that testing station to stop performance timing. After the judge and timekeeper
   complete the performance rating sheet for each contestant’s performance and procedure the
   contestant will be notified. The judge will gather the completed project and rating form and
   submit it to a scorekeeper for tabulation and posting on a Graphics Imaging - Sublimation
   Scorecard.

   Each contestant will work independently without assistance from judges, instructors, fellow
   contestants, or observers. Such assistance may result in the contestant being disqualified.
   Contestants should perform minor testing station maintenance: such as clean up, tool and
   materials placement.
   Testing station maintenance is an item that will be evaluated by testing station judges.
SkillsUSA 2017
Graphics Imaging Sublimation Printing Plan
Digital Image Design

Digital Image Design Assignment
Objective: Create a digital image design for printing a tile mosaic that is of salable quality.
1. Seat in your chair starts your time.
2. Create a folder on the flash drive with the following name, replacing X with your contestant number: GIS_Co__tent_ContestantX
3. Save one image to your contestant folder with the following name, replacing X with your contestant number: GIS_Co__tent_Contestant X Photo.PSD.
4. Create Mosaic Tile design with Adobe Photoshop
5. Reset All Tools
6. View rulers in inches
7. Create the four (4. 25” x 4. 25”) ceramic tiles, side by side, horizontal orientation Photoshop file, RGB, 300dpi.
8. Save the file in your contestant folder with the following name replacing X with your contestant number: GIS_Co__tent_Contestant X tile design.PSD.
9. Include required elements & techniques (each element on individual layer).
10. Type one or more words with:
   - Minimum of sz 20pt
   - Emboss w/ 130 depth, size 24px
   - Outer glow with screen, opacity-75, spread-20, size-50
11. Place digital image from your contestant folder.
12. Place CMYK SkillsUSA logo from provided Flash Drive.
13. Type one or more WARPed words with: Shell-upper, Bend-50%.
14. Type one word (reversed type) (light color type against a dark color).
15. Use a Pantone Coated color in design.

Judging: A tile printer will use the digital image design station checklist, reproduced on the following page, to judge the contestant’s performance, procedure and product.

Time: A timekeeper will record the time each contestant needed to complete the image design procedure. A maximum of forty (40) minutes is allocated to the total digital image design station procedure.
Time stops when the contestant notifies the time keeper.

Points: A maximum of one hundred (100) points may be given to the contestant for a high quality digital image designing performance.
**Digital Image Design Station Checklist**

Contestant Number: ____________________________  Time: ________________

Directions: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 5 and 0 to 20 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluations.

**Process Evaluation:** Evaluation of performance involves assessing a contestant’s image designing. 80 Points Possible

<table>
<thead>
<tr>
<th>Contestants Rating for Performance of the Process:</th>
<th>Zero</th>
<th>Two</th>
<th>Three</th>
<th>Four</th>
<th>Five</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Created GIS_Content_ContestantX folder on flash drive.</td>
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</tr>
<tr>
<td>2. Saved one image to contestant folder with the following name, replacing X with contestant number: GIS_Contest_Contestant X Photo. PSD.</td>
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</tr>
<tr>
<td>3. Created Mosaic Tile design with Adobe Photoshop.</td>
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</tr>
<tr>
<td>4. Reset All Tools.</td>
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</tr>
<tr>
<td>5. Viewed rulers in inches.</td>
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</tr>
<tr>
<td>6. Created the four (4. 25” x 4. 25”) ceramic tiles mosaic side by side. horizontal orientation Photoshop file, RGB, 300dpi.</td>
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<tr>
<td>7. Saved file in contestant folder with the following name replacing X with contestant number: GIS_Contest_Contestant X tile design.PSD.</td>
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<tr>
<td>8. Included required elements &amp; techniques. (each element on individual layer).</td>
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<tr>
<td>9. Typed one or more words with:</td>
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<tr>
<td>- minimum of sz20pt.</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Emboss w/130 depth, size 24px.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Outer glow with screen, opacity-75, spread-20, size-50.</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Placed digital image from your contestant folder.</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Placed RGB SkillsUSA logo from provided Flash Drive.</td>
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<td></td>
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<tr>
<td>12. Typed one or more WARPed words with: Shell-upper, Bend-50%.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Typed one word (reversed type).</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. Checked to see if type is light color type against a dark color.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15. Used Pantone Coated color in design.</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>16. Time stopped when the contestant notified time keeper.</td>
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</tr>
</tbody>
</table>

**Design Evaluation:** Using your experience in the Graphics Imaging industry evaluate the image design in accordance with the following zero to twenty-point scale.
0 - reject, 5 - fair, 10 - average, 15 - very good, 20 - excellent. 20 Points Possible

<table>
<thead>
<tr>
<th>Contestants Design.</th>
<th>Zero</th>
<th>Five</th>
<th>Ten</th>
<th>Fifteen</th>
<th>Twenty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Overall quality of the digital design process.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Points Earned ____________________________

Judge’s Signature ______________________________ Date: ________________
Transfer Printing Assignment
Objective: Print an image transfer in accordance with the instructions given at the transfer printing station.

1. Open your Tile Design File: GIS_CoContest_X tile design.PSD.
2. Select snap to guides, add new vertical-guides at 4-1/4”, 8-1/2” and 12-3/4”
3. Reposition important image parts away from tile breaks.
4. Select the rectangular marquee tool to fixed ratio and size to 4-1/4” x 4/-1/4”
5. Draw the marquee box, snapping to the first vertical guide.
6. Copy selection and paste it to a new file.
7. Change image size by adding 1/8” to both dimensions.
8. Use image rotation to flip canvas horizontal.
10. Repeat copy selection and save file for the remaining three tile segments (A2, A3, A4).
11. Select “mirror image” in printer properties.
12. Print files to sublimation printer.

Judging:
A sublimation technician will use the transfer printing station checklist to judge the contestant’s performance, procedure and product.

Time:
A timekeeper will record the time each contestant used to complete an image transfer printing procedure. A maximum of forty (40) minutes is allocated for the printing procedure.

Points:
A maximum of fifty (50) points may be given to the contestant for a sublimation image transfer printing procedure that meets industry standards.
Transfer Printing Station Checklist

Contestant Number: ____________________________ Time: ________________

Directions: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 3 and 0 to 2 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluations.

**Process Evaluation:** Evaluation of this process involves printing an image on transfer paper with a sublimation ink printer.

<table>
<thead>
<tr>
<th>Contestant's Rating for Performance of the Process:</th>
<th>42 Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Open your Tile Design File</td>
<td>Zero One Two Three</td>
</tr>
<tr>
<td>2. Select snap to guides, add new vertical-guides</td>
<td></td>
</tr>
<tr>
<td>at 4-1/4”, 8-1/2” and 12-3/4”</td>
<td></td>
</tr>
<tr>
<td>3. Reposition important image parts away from tile breaks.</td>
<td></td>
</tr>
<tr>
<td>4. Select the rectangular marquee tool to fixed ratio and size to 4-1/4” x 4/-1/4”</td>
<td></td>
</tr>
<tr>
<td>5. Draw the marquee box, snapping to the first vertical guide.</td>
<td></td>
</tr>
<tr>
<td>6. Copy selection and paste it to a new file.</td>
<td></td>
</tr>
<tr>
<td>7. Change image size by adding 1/8” to both dimensions.</td>
<td></td>
</tr>
<tr>
<td>8. Use image rotation to flip canvas horizontal.</td>
<td></td>
</tr>
<tr>
<td>10. Repeat copy selection and save file A2</td>
<td></td>
</tr>
<tr>
<td>11. Repeat copy selection and save file A3</td>
<td></td>
</tr>
<tr>
<td>13. Select “mirror image” in printer properties.</td>
<td></td>
</tr>
<tr>
<td>14. Print files to sublimation printer.</td>
<td></td>
</tr>
</tbody>
</table>

**Product Evaluation:** Evaluation of the transfer printing in accordance with the following points scale; 0 - reject, 1 - good, 2 - excellent.

<table>
<thead>
<tr>
<th>Contestant's Product:</th>
<th>8 Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Image was centered and not crooked.</td>
<td>Zero One Two</td>
</tr>
<tr>
<td>2. Image was sharp and free of faded areas.</td>
<td></td>
</tr>
<tr>
<td>3. Image transfer correctly sized.</td>
<td></td>
</tr>
<tr>
<td>4. Image transfer was flipped.</td>
<td></td>
</tr>
</tbody>
</table>

Total Points Earned ____________________________

Judge’s Signature __________________________________________ Date: __________________
Tile printing Assignment

Objective: Print images on ceramic tiles that are of salable quality.

1. Preheat heat press to 400 degrees.
2. Set timer for 5 minutes.
3. Adjust the press for medium pressure.
4. Place the sublimation transfer on the work bench face up.
5. Place each tile face down on selected transfer
6. Measure and cut image transfer to fit tile.
   Note: Transfer should be slightly bigger than the tiles.
7. Use heat tape to tape tiles to sublimation transfer.
   Note: Image transfer will be taped to each tile face to face.
8. Using a black marker **LABEL** the **6x6 tile** with contestant number.
10. Place transfer face up and tiles face down on Teflon sheet.
11. Place a sheet of scrap paper atop the transfer and tiles.
12. Check heat press timer for an 5 minute dwell.
13. Check heat press temperature for 400 degrees.
15. Heat press tiles, medium pressure, 400°, 5 min., plus 1 min. for each additional tile.
16. Use gloves to remove tiles, tape and sublimation paper-ASAP (**LET TILES COOL**).
17. Print 4 images on 4-1/4" x 4-1/4" the tiles to create a mosaic.
18. Using a black marker **LABEL** each of 4 mosaic tiles with contestant number and A1 thru A4.
   Note: Repeat steps 10 through 18 to print tiles A1 thru A4.
19. General area clean up.
20. Hand-in flash drive with the four tiles to the judge.
22. Returning to your seat indicates you are finished.

Judging: A tile printer will use the tile printing station checklist, reproduced on the following page, to judge the contestant’s performance, procedure and product.

Time: A timekeeper will record the time each contestant needed to complete the tile printing procedure. A maximum of forty (40) minutes is allocated to the total tile printing station procedure. Time stops when the contestant is seated.

Points: A maximum of one hundred (100) points may be given to the contestant for a high quality tile printing performance.
**Tile Printing Station Checklist**

**Contestant Number:** ________________________________ **Time:** __________

**Directions:** This is a performance evaluation sheet to rate a contestant on a scale of 0 to 4 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluations.

**Process Evaluation:** Evaluation of the process involves assessing how well a contestant can print tiles.

**Note:** After printing a **6X6 Test Tile** contestants will proceed with printing 4 mosaic tiles as follows.

**80 Points Possible**

**Contestants Rating for Performance of the Process:**

<table>
<thead>
<tr>
<th>Rating</th>
<th>Zero</th>
<th>One</th>
<th>Two</th>
<th>Three</th>
<th>Four</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Checked heat press temperature for 400 degrees.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Checked timer setting for 5 minutes.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Checked press adjustment for medium pressure.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Placed the sublimation transfer on the work bench face up.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Placed tiles face down on the transfer.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Measured and cut image transfer to fit tile.</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Note:</strong> Image transfer should be .75” bigger than tiles on all 4 sides.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Used heat tape to tape tiles to sublimation transfer.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Note:</strong> Image transfer will be taped to the tiles face to face.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. <strong>Labeled</strong> each tile with contestant number.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Placed transfer face up and tiles face down on Teflon sheet.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Placed a sheet of scrap paper atop the transfer and tiles.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15. Pressed tiles, medium pressure, 400°, 5 min.</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Note:</strong> Add 1 min. for each additional tile.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. Used gloves to remove tiles, tape and sublimation paper, <strong>ASAP (LET TILES COOL).</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17. Cleaned up area.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18. Turned in four tile mosaic to judge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Product Evaluation:** Using your experience in the Graphics Imaging industry evaluate the printed tile mosaic in accordance with the following zero to twenty-point scale.

0 – reject, 2 -- very poor, 4 -- fair, 6 -- good, 8 -- very good, 10 – excellent

**20 Points Possible**

<table>
<thead>
<tr>
<th>Rating</th>
<th>Zero</th>
<th>Two</th>
<th>Four</th>
<th>Six</th>
<th>Eight</th>
<th>Ten</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Salable image quality on 6”x6” ceramic tile is:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Salable image quality on 4-1/4” x 4-1/4” ceramic tiles is:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Points Earned** ________________

**Judge’s Signature** ________________________________ **Date:** __________
SkillsUSA 2017
Graphics Imaging Sublimation
Mug Printing

The print on a mug station will not be part of the 2017 Graphics Imaging - Sublimation Performance Test. All Contestants will automatically receive 25 points on the Graphics Imaging - Sublimation Scorecard. This action is taken to afford more time for the testing of additional contestants.

Print Graphics on Mugs Assignment
Objective: Create images on mugs in accordance with the instructions given at the mug printing station.

Mug printing station using convection oven instructions:
1. Preheat an infrared convection oven
2. Inventory and inspect image transfers, mugs, and wraps
3. Crop image transfer to fit the mug (if needed)
4. Position image transfer on mug. Secure with tape if necessary
5. Securely wrap the image transfer around the mug with a mug wrap
6. Place the mug and image transfer in the convection oven
7. Heat the mug and transfer to 400 degrees for 13 minutes
8. Put on oven glove before removing hot mug from convection oven
9. Remove the transfer from the mug before it sticks
10. Stop the dye sublimation by dipping the mug in room temperature water (optional)
11. Place the printed mug on a cooling table to dry
12. Evaluate image quality

Mug printing station using a mug press instructions:
1. Set up mug press for printing operation.
2. Measure and cut the image transfer to fit the mug. (if needed)
3. Wrap the transfer around the mug and center.
4. Tape the transfer to the mug with heat resistant tape.
5. Place the mug in the press with the handle facing out.
6. Close the press (the handle will lock into place when closed) to start timer.
7. Open the press when the timer sounds and remove the mug.
8. Remove heat tape from transfer and peel paper from the mug.
9. Take care to avoid scratching the poly coating while the mug is hot.
10. Stop dye sublimation by dipping mug in room temperature water. (Optional)
11. Place the printed mug on a cooling table to dry.
12. Evaluate image quality.

Judging:

A sublimation technician will use the mug printing station checklist to judge the contestant’s performance, procedure and product.

Time:
A timekeeper will record the time each contestant needed to complete the mug printing procedure. A maximum of twenty (20) minutes is allocated for the mug printing.

Points:
A maximum of two hundred (200) points may be given to the contestant for the sublimation mug printing procedure that meets industry standards.
Sublimation Mug Printing Station Checklist

Contestant Number: __________________________ Time: ________________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 8 and 0 to 10 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.

Process Evaluation: Evaluation of this process involves printing images on mugs using a sublimation dye process with both a convection oven and a mug press.

<table>
<thead>
<tr>
<th>Contestants Rating for Performance of the Process:</th>
<th>160 Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Checked oven temperature for 400° and timer for 13 minutes.</td>
<td>Zero Two Four Six Eight</td>
</tr>
<tr>
<td>2. Inspected image transfer mug surfaces for defects.</td>
<td></td>
</tr>
<tr>
<td>3. Measured and cropped image transfer to fit mug. (if needed)</td>
<td></td>
</tr>
<tr>
<td>4. Positioned image transfer on mug and secured with tape.</td>
<td></td>
</tr>
<tr>
<td>5. Installed mug wrap to firmly hold image to mug.</td>
<td></td>
</tr>
<tr>
<td>6. Placed mug and image transfer in the convection oven.</td>
<td></td>
</tr>
</tbody>
</table>

During in mug heating period print a mug in a mug press.

<table>
<thead>
<tr>
<th>Contestants Rating for Performance of the Process:</th>
<th>Zero Two Four Six Eight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Set mug press temp. at 400 degrees and time at 4 minutes.</td>
<td></td>
</tr>
<tr>
<td>2. Adjusted the pressure setting to medium pressure.</td>
<td></td>
</tr>
<tr>
<td>3. Inspected image transfer mug surfaces for defects.</td>
<td></td>
</tr>
<tr>
<td>4. Measured and cropped image transfer to fit mug.(if needed)</td>
<td></td>
</tr>
<tr>
<td>5. Positioned image transfer on mug and secured with tape.</td>
<td></td>
</tr>
<tr>
<td>6. Closed mug press on mug and image transfer.</td>
<td></td>
</tr>
<tr>
<td>7. Monitored mug and transfer heating time.</td>
<td></td>
</tr>
<tr>
<td>8. Put glove on and removed hot mug from mug press.</td>
<td></td>
</tr>
<tr>
<td>9. Dipped mug in room temperature water. (Optional)</td>
<td></td>
</tr>
<tr>
<td>10. Removed image transfer from mug to prevent sticking.</td>
<td></td>
</tr>
</tbody>
</table>

Return to mug printing at the convection oven.

| 8. With glove on, removed hot mug from convection oven. |                     |
| 9. Dipped mug in room temperature water. (Optional) |                     |
| 10. Placed printed mugs on cooling table to dry. |                     |

Product Evaluation: Evaluation of the mugs in accordance with the following points scale;

0 – reject, 2 -- very poor, 4 -- fair, 6 -- good, 8 -- very good, 10 -- excellent

<table>
<thead>
<tr>
<th>Contestants Product:</th>
<th>40 Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Images were centered and not crooked.</td>
<td>Zero Two Four Six Eight Ten</td>
</tr>
<tr>
<td>2. Images were sharp and free of faded areas.</td>
<td></td>
</tr>
<tr>
<td>3. Mugs were heated for proper length of time.</td>
<td></td>
</tr>
<tr>
<td>4. Mugs were clean and damage free.</td>
<td></td>
</tr>
</tbody>
</table>

Total Points Earned ________________

Judge’s Signature ____________________________ Date: ________________
SkillsUSA 2017
Graphics Imaging - Sublimation
Mouse Pad Printing
The print on a mouse pad station will not be part of the 2017 Graphics Imaging - Sublimation Performance Test. All Contestants will automatically receive 25 points on the Graphics Imaging - Sublimation Scorecard. This action is taken to afford more time for the testing of additional contestants.

Print a Graphic on Mouse Pad Assignment

Objective: Create an image on mouse pad in accordance with the instructions given at the mouse pad printing station.

Mouse pad printing station instructions:
1. Check temperature of preheated heat transfer press.
2. Inspect image transfers and mouse pads inventory.
3. Crop image transfer to fit the mouse pad.
4. Position image transfer on mouse pad.
5. Secure with Spray Tack if necessary.
6. Place first Teflon sheet on heated transfer press.
7. Place image transfer and mouse pad on the Teflon sheet.
8. Place second Teflon sheet on top of the image transfer.
9. Heat the image transfer and mouse pad to 400 degrees for 45 seconds.
10. Open heat transfer press and safely remove hot Teflon sheets and mouse pad.
11. Place mouse pad on a cool surface to stop dye sublimation.
12. Remove heat transfer tape and image transfer from mouse pad before it sticks.
13. Inspect the mouse pad transfer material for peeling.

Judging:
A sublimation technician will use the mouse pad printing station checklist to judge the contestant’s performance, procedure and product.

Time:
A timekeeper will record the time each contestant needed to complete the mouse pad printing procedure. A maximum of ten (10) minutes is allocated for the mouse pad printing procedure.

Points:
A maximum of fifty (50) points may be given to the contestant for the sublimation mouse pad printing procedure that meets industry standards.
Sublimation Mouse Pad Printing Station Checklist

Contestant Number: _____________________________ Time: ____________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 2 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.

Process Evaluation: Evaluation of this process involves printing an image on a mouse pad using a process that utilizes a sublimation dye process with a heat transfer press.

Contestant’s Rating for Performance of the Process:
1. Checked temperature of the heat transfer press. __________
2. Inspected image transfer to determine best orientation. __________
3. Measured image to determine image cropping. __________
4. Cut image transfer to proper size. __________
5. Placed transfer onto mouse pad in proper position. __________
6. Used heat transfer tape to attach mouse pad to transfer. __________
7. Placed first Teflon sheet on heat transfer press. __________
8. Put mouse pad and transfer on the heat transfer press. __________
9. Put second Teflon sheet on top of image transfer. __________
10. Closed heat transfer press to print image. __________
11. Timed the transfer process. __________
12. Removed transfer and tape immediately after printing. __________
13. Placed mouse pad on station table and let it cool. __________
14. Inspected mouse pad transfer material peeling. __________
15. Cleaned up the printing station. __________

Product Evaluation: Evaluation of the mouse pad in accordance with the following points scale; 0 – reject, 1 -- very poor, 2 -- fair, 3 -- good, 4 -- very good, 5 -- excellent

Contestant’s Product:
1. Image was centered and not crooked. __________
2. Image was sharp and free of faded areas. __________
3. Mouse pad was heated for the proper length of time. __________
4. Mouse pad was clean and damage free. __________

Total Points Earned ____________________________

Judge’s Signature __________________________________ Date: ______________________
SkillsUSA 2017
Graphics Imaging - Sublimation
Print on a metal surface (license tag)

Print on a License Tag Assignment

Objective: Create an image on license tag in accordance with the instructions given at the license tag printing station.

License tag printing station instructions:
1. Check temperature of preheated heat transfer press.
2. Inspect image transfers and license tag inventory.
3. Crop image transfer to fit the license tag.
4. Position image transfer on license tag.
5. Secure with heat transfer tape if necessary.
6. Place first Teflon sheet on heated transfer press.
7. Place image transfer and license tag on the Teflon sheet.
8. Place second Teflon sheet on top of the image transfer.
9. Heat the image transfer and license tag to 385 degrees for 30 seconds.
11. Place license tag on a cool surface and stop dye sublimation.
12. Remove heat transfer tape and image transfer from license tag before it sticks.
13. Inspect the license tag transfer material for peeling.

Judging:
A sublimation technician will use the license tag printing station checklist to judge the contestant’s performance, procedure and product.

Time:
A timekeeper will record the time each contestant needed to complete the license tag printing procedure. A maximum of ten (10) minutes is allocated for the license tag printing procedure.

Points:
A maximum of fifty (50) points may be given to the contestant for the sublimation license tag printing procedure that meets industry standards.
Sublimation License Tag Printing Station Checklist

Contestant Number: ___________________________ Time: ______________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 2 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.

Process Evaluation: Evaluation of this process involves printing an image on a license tag using a process that utilizes a sublimation dye process with a heat transfer press.

Contestant’s Rating for Performance of the Process:

1. Checked temperature of the heat press. 30 Points Possible
2. Inspected image transfer to determine best orientation.
3. Measured image to determine image cropping.
4. Cut image transfer to proper size.
5. Placed transfer onto license tag in proper position.
6. Taped transfer to license tag.
7. Placed first Teflon sheet on heat transfer press.
8. Put license tag and transfer on the heat press.
9. Put second Teflon sheet on top of image transfer.
11. Timed the transfer process.
12. Removed transfer and tape immediately after printing.
13. Placed license tag on station table and let it cool.
14. Inspected license tag transfer material peeling.
15. Cleaned up the printing station.

Zero Two

Product Evaluation: Evaluation of the license tag in accordance with the following points scale;
0 – reject, 1 -- very poor, 2 -- fair, 3 -- good, 4 -- very good, 5 – excellent

Contestant’s Product:

1. Image was centered and not crooked. 20 Points Possible
2. Image was sharp and free of faded areas.
3. License tag was heated for the proper length of time.
4. License tag was clean and damage free.

Zero One Two Three Four Five

Total Points Earned __________________________

Judge’s Signature ___________________________________________ Date: ______________
SkillsUSA 2017
Graphics Imaging - Sublimation
Print on a glass surface (cutting board)

Print on a Cutting Board Assignment

Objective: Create an image on cutting board in accordance with the instructions given at the cutting board printing station.

Cutting board printing station instructions:
1. Check temperature of preheated heat transfer press.
2. Inspect image transfers and cutting board inventory.
3. Crop image transfer to fit the cutting board.
4. Position image transfer on cutting board.
5. Secure with heat transfer tape if necessary.
6. Place first Teflon sheet on heated transfer press.
7. Place image transfer and cutting board on the Teflon sheet face-up.
8. Place second Teflon sheet on top of the cutting board.
9. Heat the image transfer and cutting board to 400 degrees for 5 minutes.
10. Open heat transfer press and safely remove hot Teflon sheets and cutting board.
11. Place cutting board on a cool surface.
12. Remove heat transfer tape and image transfer from cutting board before it sticks.
13. Inspect the cutting board transfer material for peeling.

Judging:
A sublimation technician will use the cutting board printing station checklist to judge the contestant’s performance, procedure and product.

Time:
A timekeeper will record the time each contestant needed to complete the cutting board printing procedure. A maximum of fifteen (15) minutes is allocated for the cutting board printing procedure.

Points:
A maximum of twenty five (25) points may be given to the contestant for the sublimation cutting board printing procedure that meets industry standards.
Print on a Glass Surface Station Checklist

Contestant Number: _____________________________ Time: __________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 5 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.

Process Evaluation: Evaluation of this process involves printing an image on a glass surface using a process that utilizes a sublimation dye process with a heat transfer press.

Contestant’s Rating for Performance of the Process: 80 Points Possible

<table>
<thead>
<tr>
<th></th>
<th>Zero</th>
<th>One</th>
<th>Two</th>
<th>Three</th>
<th>Four</th>
<th>Five</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Checked temperature</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>2. Inspected image</td>
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<tr>
<td>3. Measured image</td>
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<tr>
<td>4. Cut image</td>
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<tr>
<td>5. Placed transfer</td>
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<tr>
<td>6. Taped transfer</td>
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<td></td>
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<tr>
<td>7. Placed Teflon</td>
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<td></td>
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<tr>
<td>8. Put glass surface</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>9. Put second Teflon</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10. Closed heat press</td>
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</tr>
<tr>
<td>11. Timed the process</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>12. Removed transfer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Placed glass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. Evaluated image</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15. Inspected glass</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. Cleaned up</td>
<td></td>
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</tr>
</tbody>
</table>

Product Evaluation: Evaluation of the glass surface in accordance with the following points scale; 0 – reject, 1 -- very poor, 2 -- fair, 3 -- good, 4 -- very good, 5 -- excellent

20 Points Possible

<table>
<thead>
<tr>
<th></th>
<th>Zero</th>
<th>One</th>
<th>Two</th>
<th>Three</th>
<th>Four</th>
<th>Five</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Image was centered</td>
<td></td>
<td></td>
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<tr>
<td>2. Image was</td>
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<td>3. Glass surface was</td>
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<td>4. Glass surface was</td>
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</tbody>
</table>

Total Points Earned

Note:

Before transferring contestant score to the Graphics Imaging – Sublimation Printing SCORECARD:

Total Points Earned ____________________ ÷ by 4 = __________

Judge’s Signature ________________________________ Date: __________
SkillsUSA 2017
Graphics Imaging - Sublimation
Print on hard board (basketball goal)

Print on Hard Board Assignment
The print on hard board station will not be part of the 2017 Graphics Imaging - Sublimation Performance Test. All Contestants will automatically receive 25 points on the Graphics Imaging - Sublimation Scorecard. This action is taken to afford more time for the testing of additional contestants.

Objective: Create an image on hard board in accordance with the instructions given at the hard board printing station.

Cutting board printing station instructions:
1. Check temperature of preheated heat transfer press.
2. Inspect image transfers and hard board inventory.
3. Crop image transfer to fit the hard board.
4. Position image transfer on hard board.
5. Secure with heat transfer tape if necessary.
6. Place first Teflon sheet on heated transfer press.
7. Place image transfer and hard board on the Teflon sheet.
8. Place second Teflon sheet on top of the image transfer.
9. Heat the image transfer and hard board to 400 degrees for 40 seconds.
10. Open heat transfer press and safely remove hot Teflon sheets and hard board.
11. Place hard board on a cool surface.
12. Remove heat transfer tape and image transfer from hard board before it sticks.
13. Inspect the hard board transfer material for peeling.

Judging:
A sublimation technician will use the hard board printing station checklist to judge the contestant’s performance, procedure and product.

Time:
A timekeeper will record the time each contestant needed to complete the hard board printing procedure. A maximum of fifteen (15) minutes is allocated for the hard board printing procedure.

Points:
A maximum of twenty five (25) points may be given to the contestant for the sublimation hard board printing procedure that meets industry standards.
Print on a Hard Board Station Checklist

Contestant Number: ___________________________ Time: ____________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 5 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.

Process Evaluation: Evaluation of this process involves printing an image on a hard board surface using a process that utilizes a sublimation dye process with a heat transfer press.

80 Points Possible

Contestant’s Rating for Performance of the Process:  
1. Checked temperature of the heat transfer press.  
2. Inspected image transfer to determine best orientation.  
3. Measured image to determine image cropping.  
4. Cut image transfer to proper size and lay on a table.  
5. Placed transfer onto hard board in proper position.  
6. Taped transfer to hard board.  
7. Placed first Teflon sheet on heat transfer press.  
9. Put second Teflon sheet on top of image transfer.  
11. Timed the transfer process.  
12. Removed transfer and tape immediately after printing.  
13. Placed hard board on station table and let it cool.  
15. Inspected hard board surface transfer material peeling.  
16. Cleaned up the printing station.

Product Evaluation: Evaluation of the hard board in accordance with the following points scale;  
0 – reject, 1 -- very poor, 2 -- fair, 3 -- good, 4 -- very good, 5 -- excellent

20 Points Possible

Contestant’s Product:  
1. Image was centered and not crooked.  
2. Image was sharp and free of faded areas.  
3. Hard board was heated for the proper length of time.  
4. Hard board was clean and damage free.

Total Points Earned ____________

Note:
Before transferring contestant score to the Graphics Imaging – Sublimation Printing SCORECARD:  
Total Points Earned ____________ ÷ by 4 = ____________

Judge’s Signature ___________________________________ Date: ____________

29
SkillsUSA 2017
Graphics Imaging - Sublimation
Print on polyester knit (t-shirt)
Assignment
Objective: Create an image on a polyester knit (t-shirt) in accordance with the instructions given at the t-shirt printing station.

T-shirt printing station instructions:
1. Preheat heat press to 385 degrees.
2. Set timer for approximately 55 seconds.
3. Adjust the press for light pressure.
4. Trim excess edges from transfer.
5. Place Teflon sheet on the lower platen of heat press.
6. Place t-shirt on heat press.
7. Position transfer face down on shirt.
8. Use Spray Tack to attach the transfer to shirt.
9. Place third Teflon sheet on top of transfer.
11. Close the heat press.
12. Press shirt and transfer until the timer alarm sounds.
13. Open the press.
14. Remove the Teflon sheets.
15. Remove tape and peel transfer paper from shirt promptly.
16. Evaluate image quality.

Judging:
A sublimation technician will use the t-shirt printing station checklist to judge the contestant’s performance, procedure and product.

Time:
A timekeeper will record the time each contestant needed to complete the t-shirt printing procedure. A maximum of fifteen (15) minutes is allocated for the t-shirt printing procedure.

Points:
A maximum of fifty (50) points may be given to the contestant for the sublimation t-shirt printing procedure that meets industry standards.
Print on Polyester Knit T-Shirt Station Checklist

Contestant Number: ________________________________ Time: ____________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 5 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.

Process Evaluation: Evaluation of this process involves printing an image on a hard board surface using a process that utilizes a sublimation dye process with a heat transfer press.

### Contestant’s Rating for Performance of the Process:

<table>
<thead>
<tr>
<th></th>
<th>Zero</th>
<th>One</th>
<th>Two</th>
<th>Three</th>
<th>Four</th>
<th>Five</th>
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</tbody>
</table>

Note: Some heat presses do not require step 7.

<table>
<thead>
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<th></th>
<th>Zero</th>
<th>One</th>
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<th>Three</th>
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</table>

### Product Evaluation: Evaluation of the t-shirt in accordance with the following points scale;

0 – reject, 1 -- very poor, 2 -- fair, 3 -- good, 4 -- very good, 5 – excellent

<table>
<thead>
<tr>
<th></th>
<th>Zero</th>
<th>One</th>
<th>Two</th>
<th>Three</th>
<th>Four</th>
<th>Five</th>
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<tr>
<td>1.</td>
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</tbody>
</table>

Note:

Before transferring contestant score to the Graphics Imaging – Sublimation Printing SCORECARD:

Total Points Earned

\[ \text{Total Points Earned} \div 2 = \quad \]

Judge’s Signature __________________________ Date: ______________
SkillsUSA 2017
Graphics Imaging - Sublimation
Print on stone (subli-slate)

Print on Stone Assignment

The print on stone station will not be part of the 2017 Graphics Imaging - Sublimation
Performance Test. All Contestants will automatically receive 25 points on the Graphics Imaging -
Sublimation Scorecard.
This action is taken to afford more time for the testing of additional contestants.

Objective: Create an image on stone in accordance with the instructions given at the stone printing station.

Stone printing station instructions:
1. Adjust heat press for medium pressure.
2. Measure and cut image transfer to fit stone.
3. Position transfer and stone on the heat press.
4. Apply heat resistant tape to hold the sublimation transfer and stone in position.
5. Place a ½ to ¾ inch Nomex felt pad on bottom platen of heat press.
6. Place stone face down on transfer.
7. Place a second Teflon sheet atop the transfer and stone.
8. Check heat press timer for a 6 to 8 minutes dwell.
9. Check heat press temperature for 400 degrees.
10. Close the heat press.
11. Press stone and transfer until the timer alarm sounds.
12. Open the heat press, wearing gloves.
13. Remove top Teflon sheet.
14. Remove heat resistant tape and peel transfer paper from stone.
15. Place stone on a cool smooth surface and let it air cool.
16. Evaluate image quality.

Judging:
A sublimation technician will use the stone (subli-slate) printing station checklist to judge the
contestant’s performance, procedure and product.

Time:
A timekeeper will record the time each contestant needed to complete the stone (subli-slate) printing
procedure. A maximum of fifteen (15) minutes is allocated for the stone (subli-slate) printing
procedure.

Points:
A maximum of twenty five (25) points may be given to the contestant for the sublimation stone (subli-
slate) printing procedure that meets industry standards.

Print on Stone Station Checklist

Contestant Number: _____________________________ Time: _____________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 5 and 0 to 5 for
various items in relation to an occupational competency (skill). This instrument can be used for process,
product, safety and time standard evaluation.
Print on Stone Station Checklist

Contestant Number: ___________________________ Time: _______________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 5 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.

**Process Evaluation:** Evaluation of this process involves printing an image on a stone surface using a process that utilizes a sublimation dye process with a heat transfer press.

<table>
<thead>
<tr>
<th>80 Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contestant’s Rating for Performance of the Process:</td>
</tr>
<tr>
<td>1. Checked 400 degree heat transfer press temperature.</td>
</tr>
<tr>
<td>2. Checked timer for approximately 80 seconds.</td>
</tr>
<tr>
<td>3. Adjusted heat transfer press for medium pressure.</td>
</tr>
<tr>
<td>4. Measured and cut image transfer to proper size.</td>
</tr>
<tr>
<td>5. Taped image transfer face to face on stone.</td>
</tr>
<tr>
<td>7. Placed stone face down on transfer.</td>
</tr>
<tr>
<td>8. Placed second Teflon sheet atop stone and transfer.</td>
</tr>
<tr>
<td>10. Pressed stone and transfer until timer sounds.</td>
</tr>
<tr>
<td>11. Opened press removed top Teflon sheet. (wear gloves)</td>
</tr>
<tr>
<td>12. Removed transfer and tape immediately after printing.</td>
</tr>
<tr>
<td>13. Placed stone on station table and let it cool.</td>
</tr>
<tr>
<td>15. Inspected stone surface transfer material peeling.</td>
</tr>
</tbody>
</table>

**Product Evaluation:** Evaluation of the stone in accordance with the following points scale; 0 – reject, 1 -- very poor, 2 -- fair, 3 -- good, 4 -- very good, 5 -- excellent

<table>
<thead>
<tr>
<th>20 Points Possible</th>
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</thead>
<tbody>
<tr>
<td>Contestant’s Product:</td>
</tr>
<tr>
<td>1. Image was centered and not crooked.</td>
</tr>
<tr>
<td>2. Image was sharp and free of faded areas.</td>
</tr>
<tr>
<td>3. Stone was heated for the proper length of time.</td>
</tr>
<tr>
<td>4. Stone was clean and damage free.</td>
</tr>
</tbody>
</table>

**Total Points Earned** __________

Before transferring contestant score to the Graphics Imaging – Sublimation Printing SCORECARD:

Total Points Earned __________ ÷ by 4 = __________

Judge’s Signature ___________________________ Date: _______________
SkillsUSA 2017  
Graphics Imaging - Sublimation  
Print on fiberglass reinforced plastic (FRP) signs  

Print on fiberglass reinforced plastic (FRP) signs Assignment  
The print on a fiberglass reinforced plastic (FRP) signs station will not be part of the 2017 Graphics Imaging - Sublimation Performance Test. All Contestants will automatically receive 25 points on the Graphics Imaging - Sublimation Scorecard. This action is taken to afford more time for the testing of additional contestants.  
Objective: Create an image on FRP signs in accordance with the instructions given at the FRP signs printing station.  

FRP signs printing station instructions:  
1. Adjust heat press for medium pressure.  
2. Measure and cut image transfer to fit FRP sign.  
3. Place the transfer face up on work station table.  
4. Remove protective film from the FRP sign blank.  
5. Tape the FRP sign blank to be printed to the transfer.  
6. Place a Teflon sheet on the lower platen of heat press.  
7. Place the transfer face up on the Teflon sheet.  
8. Place the FRP sign blank on the transfer.  
9. Center the FRP sign blank to be printed on in all directions.  
10. Place a second sheet of Teflon on the FRP sign blank.  
11. Check heat press timer for a 1 minute 45 second dwell.  
12. Check heat press temperature for 400 degrees.  
13. Close the heat press until alarm sounds.  
14. Remove Teflon and transfer from the FRP sign.  
15. Place the FRP sign on a cool surface and let it air cool.  
16. Evaluate image quality.  
17. Equipment clean up and work station housekeeping.  

Judging:  
A sublimation technician will use the FRP sign printing station checklist to judge the contestant’s performance, procedure and product.  

Time:  
A timekeeper will record the time each contestant needed to complete the FRP sign printing procedure. A maximum of fifteen (15) minutes is allocated for the FRP sign printing procedure.  

Points:  
A maximum of twenty five (25) points may be given to the contestant for the sublimation FRP sign printing procedure that meets industry standards.  
Print on Fiberglass Reinforced Plastic Station Checklist  

Contestant Number:__________________________ Time:__________  

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 5 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.
Print on Fiberglass Reinforced Plastic (FRP) Station Checklist

Contestant Number: ________________________________  Time: __________________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 5 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.

Process Evaluation: Evaluation of this process involves printing an image on a FRP surface using a process that utilizes a sublimation dye process with a heat transfer press.

<table>
<thead>
<tr>
<th>Contestant’s Rating for Performance of the Process:</th>
<th>Zero</th>
<th>One</th>
<th>Two</th>
<th>Three</th>
<th>Four</th>
<th>Five</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Checked 400 degree heat transfer press temperature.</td>
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<tr>
<td>2. Checked timer for approximately 45 seconds.</td>
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<tr>
<td>3. Adjusted heat transfer press for medium pressure.</td>
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<tr>
<td>4. Measured and cut image transfer to proper size.</td>
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<tr>
<td>5. Taped image transfer face to face on FRP sign blank.</td>
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<tr>
<td>7. Placed transfer and FRP sign blank on heat press.</td>
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<tr>
<td>8. Placed a Teflon sheet atop transfer and FRP sign blank.</td>
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<tr>
<td>10. Pressed transfer and FRP sign blank until timer sounds.</td>
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<tr>
<td>11. Opened press removed top Teflon sheet. (wear gloves)</td>
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<tr>
<td>12. Removed transfer and tape immediately after printing.</td>
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<tr>
<td>13. Placed FRP sign blank on station table and let it cool.</td>
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<tr>
<td>15. Inspected FRP sign surface transfer material peeling.</td>
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<tr>
<td>16. Cleaned up the FRP sign printing station.</td>
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</tbody>
</table>

Product Evaluation: Evaluation of the FRP sign blank in accordance with the following points scale;

0 – reject, 1 -- very poor, 2 -- fair, 3 -- good, 4 -- very good, 5 – excellent

<table>
<thead>
<tr>
<th>Contestant’s Product:</th>
<th>Zero</th>
<th>One</th>
<th>Two</th>
<th>Three</th>
<th>Four</th>
<th>Five</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Image was centered and not crooked.</td>
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<tr>
<td>2. Image was sharp and free of faded areas.</td>
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<tr>
<td>3. FRP was heated for the proper length of time.</td>
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<tr>
<td>4. FRP was clean and damage free.</td>
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</tbody>
</table>

Total Points Earned __________________

Before transferring contestant score to the Graphics Imaging – Sublimation Printing SCORECARD:

Total Points Earned __________________ ÷ by 4 = __________________

Judge’s Signature ________________________________  Date: __________________
Print on pennant (car flag)

Print on a Pennant (car flag) Assignment
The print on a pennant (car flag) station will not be part of the 2017 Graphics Imaging - Sublimation Performance Test. All Contestants will automatically receive 50 points on the Graphics Imaging - Sublimation Scorecard.
This action is taken to afford more time for the testing of additional contestants.

Objective: Create an image on pennant (car flag) in accordance with the instructions given at the car flag printing station.

1. Adjust the press for medium pressure.
2. Preheat transfer heat press to 385 degrees.
3. Set timer for approximately 45 seconds.
4. Measure and cut the transfer to proper size to fit car flag.
5. Accurately position a transfer onto a car flag blank.
6. Place a Teflon sheet on the press.
7. Put car flag and transfer on the heat press, transfer on top face down.
8. Put another Teflon sheet on top of the transfer and car flag.
10. Press car flag and transfer with medium pressure.
11. Open the heat press when the timer alarm sounds.
12. Remove Teflon sheet off and peel transfer paper from car flag immediately.
13. Place car flag on counter and let it cool.
15. Equipment clean up and work station housekeeping.

Judging:
A sublimation technician will use the car flag printing station checklist to judge the contestant’s performance, procedure and product.

Time:
A timekeeper will record the time each contestant needed to complete the car flag printing procedure. A maximum of fifteen (15) minutes is allocated for the car flag printing procedure.

Points:
A maximum of fifty (50) points may be given to the contestant for the sublimation car flag printing procedure that meets industry standards.
Print on a Pennant Station Checklist

Contestant Number: ____________________________ Time: __________

Direction: This is a performance evaluation sheet to rate a contestant on a scale of 0 to 5 and 0 to 5 for various items in relation to an occupational competency (skill). This instrument can be used for process, product, safety and time standard evaluation.

**Process Evaluation:** Evaluation of this process involves printing an image on a pennant surface using a process that utilizes a sublimation dye process with a heat transfer press.

<table>
<thead>
<tr>
<th>Contestant’s Rating for Performance of the Process:</th>
<th>80 Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Adjusted the press for medium pressure.</td>
<td>Zero One Two Three Four Five</td>
</tr>
<tr>
<td>2. Checked 385 degree heat transfer press temperature.</td>
<td></td>
</tr>
<tr>
<td>3. Set timer for approximately 45 seconds.</td>
<td></td>
</tr>
<tr>
<td>4. Measured and cut the transfer to fit car flag.</td>
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<tr>
<td>5. Accurately positioned transfer onto a car flag blank.</td>
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<tr>
<td>7. Placed car flag and transfer on the heat press.</td>
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<tr>
<td>8. Placed second Teflon sheet on the transfer and car flag.</td>
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<tr>
<td>9. Closed the heat press.</td>
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<tr>
<td>10. Pressed car flag and transfer with medium pressure.</td>
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<tr>
<td>11. Opened the heat press when the timer alarm sounded.</td>
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<tr>
<td>12. Removed Teflon top sheet. (wear gloves)</td>
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<tr>
<td>13. Removed transfer immediately after printing.</td>
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<tr>
<td>14. Placed pennant on station table and let it cool.</td>
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</tr>
<tr>
<td>15. Evaluated image quality.</td>
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</tr>
<tr>
<td>16. Inspected pennant surface transfer material peeling.</td>
<td></td>
</tr>
</tbody>
</table>

**Product Evaluation:** Evaluation of the pennant in accordance with the following points scale; 0 – reject, 1 -- very poor, 2 -- fair, 3 -- good, 4 -- very good, 5 – excellent

<table>
<thead>
<tr>
<th>Contestant’s Product:</th>
<th>20 Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Image was centered and not crooked.</td>
<td>Zero One Two Three Four Five</td>
</tr>
<tr>
<td>2. Image was sharp and free of faded areas.</td>
<td></td>
</tr>
<tr>
<td>3. Pennant was heated for the proper length of time.</td>
<td></td>
</tr>
<tr>
<td>4. Pennant was clean and damage free.</td>
<td></td>
</tr>
</tbody>
</table>

**Total Points Earned**

Note:

Before transferring contestant score to the Graphics Imaging – Sublimation Printing SCORECARD:

**Total Points Earned** _____________ ÷ by 2 = ________________

Judge’s Signature ____________________________ Date: __________
Objective:
Judge quality levels of five (5) items that have been rejected by a quality assurance auditor before the auditor negotiates a new price for your company’s customer.

Quality control station instructions:
1. Study criterion lists printed on back of the quality control inspector report form.
2. Obtain the Q. C. problem worksheet from the Q. C. station timekeeper.
3. Study the quality assurance worksheet scenario and inspection steps.
4. Move to novelty item quality assessment station inspection pedestal.
5. Select item number one (1) and position it out on the inspection table.
6. Inspect both sides of the item number one (1).
7. Rate the degree of defect item one (1) on the quality control inspection worksheet.
8. Place item one (1) in box marked for either none, minor or major rejects.
9. Inspect the remaining four (4) items according to steps 5, 6, 7 and 8.
10. Return to the judge or timekeeper and submit your completed report that is recorded on the quality control problem worksheet.

Judging:
A graphics imaging printer will use the quality control problem worksheet, reproduced on the following two pages, to judge and score the contestant’s performance.

Time:
A timekeeper will record the time each contestant needed to complete the quality control problem procedure. A maximum of twenty (20) minutes is allocated to the quality control problem procedure. Time stops when the contestant is seated.

Points:
A maximum of one fifty (50) points may be given to the contestant for the quality assurance audit inspection.
Scenario: As a quality control inspector for New Era Novelties Company you have been given the task of assessing the validity of a recent quality assurance audit performed by one of your company's customers. The quality assurance auditor rejected five (5) items printed by sublimation. You have been instructed to use the criterion lists printed on the back of this worksheet to determine if the rejected novelty items were accurately evaluated and rate the degree of each defect. The quality assurance audit criterion lists printed on the back of this worksheet have a rating scale for each of the ten possible defects that might be observed on each of the five rejected novelty items. These five novelty items are being inspected for a second time. Rate each of the defect criterion factors listed by placing a check mark in the blank that indicates you found either no defect (NONE), minor defect (MINOR), or a major defect (MAJOR). Your evaluation of each of the five rejected novelty items will be validated in part by your graphics imaging sublimation printing knowledge and practical experience. It will be your responsibility to evaluate each of the five (5) novelty items against a list of ten (10) possible defects and determine if the items should have been rejected on the basis of being considered not saleable.

Minor defects may be acceptable if the novelty item is considered saleable. A minor defect example could be a small ink deposit.

Major defects will render a novelty item not saleable. A major defect example would be a large smear of ink, or image printed out of dimension tolerance.

Judge’s Evaluation Criteria: Depending on where the contestant placed a check mark to indicate the degree of quality defect for each criterion factor listed below award one (1) point for each correct check mark. Judging will be accomplished by comparing the contestants rating to the judge’s rating key.

A quality control inspector report form is printed on the back of this page.
Quality Control Inspector Rating Form

Contestant Number: ____________________________ Time: _____________

**Novelty Item 1 - Inspection Rating**

<table>
<thead>
<tr>
<th>None</th>
<th>Minor</th>
<th>Major</th>
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</thead>
<tbody>
<tr>
<td>1. Image printed on correct vertical dimension.</td>
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<td></td>
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<tr>
<td>2. Image printed on center.</td>
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<td></td>
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<tr>
<td>3. Image crooked.</td>
<td></td>
<td></td>
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<tr>
<td>4. Ink smudges on sample item.</td>
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<td></td>
</tr>
<tr>
<td>5. Color density varies across the image.</td>
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<tr>
<td>6. Ink printed in non-image area due to transfer error.</td>
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<td></td>
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<tr>
<td>7. Transfer moved causing image elements overlap.</td>
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<td></td>
</tr>
<tr>
<td>8. Missed register between image elements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Novelty item damage.</td>
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<tr>
<td>10. Colors match the customer's standard.</td>
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</tr>
</tbody>
</table>

**Novelty Item 2 - Inspection Rating**

<table>
<thead>
<tr>
<th>None</th>
<th>Minor</th>
<th>Major</th>
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</thead>
<tbody>
<tr>
<td>1. Image printed on correct vertical dimension.</td>
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<tr>
<td>2. Image printed on center.</td>
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<tr>
<td>3. Image crooked.</td>
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<td>4. Ink smudges on sample item.</td>
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<td>5. Color density varies across the image.</td>
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<td>9. Novelty item damage.</td>
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<td>10. Colors match the customer's standard.</td>
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</table>

**Novelty Item 3 - Inspection Rating**

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**Novelty Item 4 - Inspection Rating**

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<td>10. Colors match the customer's standard.</td>
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**Novelty Item 5 - Inspection Rating**

<table>
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<tbody>
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<tr>
<td>10. Colors match the customer's standard.</td>
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Judge’s Signature ____________________________ Date: ____________

40
SkillsUSA

Graphic Imaging - Sublimation Printing Test Questions

Revised 6-9-2017

Directions:

1. You will have 30 minutes to complete this 25-question multiple-choice test.

2. You may mark in this test booklet for planning purposes.

3. When you have completed answering the 25 test questions, place both the answer sheet and test booklet face down on the table and wait for instructions from the testing monitor.
SkillsUSA 2017
Graphics Imaging - Sublimation
Participate in an oral professional assessment.

Objective:
Participate in an oral professional assessment in a role-playing job interview setting related to a graphic image printing career choice.

Oral professional assessment station instructions:
1. Introduce yourself
2. Take the seat indicated by the interviewer
3. Answer questions
4. Ask questions that you deem appropriate

Judging:
A human resources interviewer with basic knowledge of the screen printing industry will use the oral professional assessment station checklist, reproduced on the following page, to judge the contestant’s graphic image printing knowledge and preparation needed for employment in a graphic image printing occupation.

Time:
The human resources interviewer will record the time each contestant participated in a job interview. A maximum of fifteen (15) minutes is allocated to the oral professional assessment.

Points:
A maximum of one hundred (100) points may be given to the contestant for an oral professional assessment that meets Equal Employment Opportunity (EEO) standards.
Oral Professional Assessment Station Checklist

Contestant Number: ______________________ Time: ________________

Directions: This oral professional assessment checklist is designed to rate a contestant’s responses to questions on a scale of 0 to 20. Five question areas or problems should be posed that are related to the contestant’s occupational goals in the field of graphic imaging. This instrument should be used to record indications of person’s readiness for employment as a graphic image printer.

Process Evaluation: Evaluation of the process involves interviewing a person who has applied for a job with a company that produces products requiring graphic image printing processes. Questions will be related to a performance test that might be given to applicants by a company’s production personnel.

Questions to be developed by the graphics imaging – sublimation printing technical committee prior to the day of the national level performance test.

Questions related to the following areas:
1. Ability to handle assignments
2. Ability to answer questions asked in technical terms
3. Situation handled in a professional manner
4. Demonstration of critical thinking throughout the job interview scenario
5. Realistic self-concept

The following page is a copy of the Oral Professional Assessment Station Checklist related to the five areas listed above with an attending rating scale for each question area.

Note: The specific questions have been removed and will be revised annually by technical committee members.
Oral Professional Assessment Station Checklist

Contestant Number: _______ Start Time: _______ End Time: _______

1. Ability to handle work assignments. Question Area Score: 0 to 20 Points ______

2. Answered questions using technical terms. Question Area Score: 0 to 20 Points ______

3. Situation handled in a professional manner. Question Area Score: 0 to 20 Points ______

4. Used critical thinking during the interview. Question Area Score: 0 to 20 Points ______

5. Demonstrated a realistic self-concept. Question Area Score: 0 to 20 Points ______

Total Points Out of Possible 100 _________
<table>
<thead>
<tr>
<th>Time</th>
<th>Digital Design</th>
<th>Transfer Printing</th>
<th>Tile Printing</th>
<th>T-Shirt Printing</th>
<th>CB &amp; LP Printing</th>
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<tbody>
<tr>
<td>8:00</td>
<td><strong>PS 501</strong></td>
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<td>S 101</td>
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<td>8:20</td>
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<td>S 102</td>
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<tr>
<td>8:40</td>
<td><strong>PS 502</strong></td>
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<td>S 103</td>
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</tr>
</tbody>
</table>

*Note: The times and activities are for a specific day and can vary.*
<table>
<thead>
<tr>
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<th>Transfer Printing</th>
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<th>Q C Problem</th>
<th>Oral Interview</th>
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CONTEST SCORING CRITERIA

Graphics Imaging Sublimation Printing

Contest

Johnny Shell

Chair

<table>
<thead>
<tr>
<th>Skill Description</th>
<th>Maximum Points</th>
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<tbody>
<tr>
<td>1. Create a Digital Image</td>
<td>100</td>
</tr>
<tr>
<td>2. Print an Image Transfer</td>
<td>50</td>
</tr>
<tr>
<td>3. Printing on Tiles (Ceramic)</td>
<td>100</td>
</tr>
<tr>
<td>4. Printing on Mugs</td>
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</tr>
<tr>
<td>5. Printing on a Mouse Pad</td>
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</tr>
<tr>
<td>6. Printing on License Plate</td>
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</tr>
<tr>
<td>7. Printing on Glass (Cutting Board)</td>
<td>25</td>
</tr>
<tr>
<td>8. Printing on Hard Board</td>
<td>25</td>
</tr>
<tr>
<td>9. Printing on Polyester Knit</td>
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<tr>
<td>10. Printing on Slate</td>
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</tr>
<tr>
<td>11. Printing on FRP (Signs)</td>
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<tr>
<td>12. Printing on Pennant or Car Flag</td>
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<td>13. Quality Control Problem</td>
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<td>14. Written Test</td>
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<td>15. Oral Skills USA</td>
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<td>16. Total</td>
<td>1000</td>
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</tbody>
</table>

Résumé submitted? Yes X No ☐ (5% penalty)

Tie Breakers
1. SkillsUSA Professional Development Program Test
2. Number of Salable Tiles Printed at the tile printing station
3. T-Shirt Quality