



## TECHNICAL ILLUSTRATION

(revised 8-8-2005)

### **Purpose**

To evaluate each contestant's mastery of entry-level job skills and to recognize outstanding students for excellence and professionalism in the field of technical illustration

First, refer to General Regulations

### **Clothing Requirement**

Clothing that is safe and appropriate to the technical illustration profession and work environment

### **Eligibility**

Open to active SkillsUSA Virginia members enrolled in programs with drafting as the occupational objective

### **Equipment and Materials**

#### **1. Supplied by the technical committee:**

- a. Drawing tables with drafting machines and scales attached
- b. Illustration board, 20" x 30"
- c. Masking tape
- d. Shading materials if other than pencil, i.e., Zip-A-Tone, ink, screens, or tapes

#### **2. Supplied by the contestant:**

- a. Drawing instruments to include pencil and ink equipment
- b. 30-60' and 45' triangles and/ or adjustable triangle
- c. Lettering instruments or guides.
- d. Architectural drafting scale or engineer scale and metric scale
- e. Erasers and erasing shield
- f. Appropriate pencils and/or lead holders and leads
- g. Sanding boards or pencil pointers
- h. French curves
- i. Dusting brush
- j. Standard and ellipse templates and isometric templates
- k. Dusting bag or powder
- l. Xacto knife or set of knives
- m. Such other supplies as the individual thinks necessary (subject to the approval of the technical committee)
- n. **Contestants must present a one page personal resume' at the beginning of the contest.**

### **Scope of the Contest**

1. The contest will consist of preparing an illustration of. an object selected by the technical committee. It may be an actual object requiring measurement; it may be an architectural or machine drawing set of plans; or it may be a portion of an assembly drawing.
2. The illustration will be completed using isometric drawing techniques.
3. The illustration may require line shading in either ink or pencil, depending on the instructions of the technical committee.
4. Contestants will demonstrate their ability to perform skills selected from the following list of competencies as determined by the SkillsUSA Virginia Skill Competitions Technical Committee.

(page 2, technical illustration)

- a. Layout and draw the following:
  1. Schematics
  2. Perspective views
  3. Orthographic views
  4. Oblique angle views.
- b. Apply shading and color
- c. Inking
- d. Paste-up
- e. Draw cartoons and caricatures.

## Technical Illustration Rating Sheet

ITEMS EVALUATED	POSSIBLE POINTS
ONE PAGE PERSONAL RESUME	10
Solution to Problem	50
Line Work	25
Lettering	25
Shading & Texture	50
Layout & Balance	35
Neatness	30
Accuracy	35
Photo-ready Work	50
SUBTOTAL	310
TOTAL POINTS	