

**DEPARTMENT J22**  
**◆ HIGH SCHOOL INDUSTRIAL EDUCATION ◆**

- ENTRIES CLOSE → Friday, May 15, 5:00 pm (11:59 pm online)  
ENTRY LIMIT → Two (2) entries per class per exhibitor  
ENTRY FEE → \$1.00 per entry per class  
ENTER ONLINE → [www.sonoma-marinfair.org](http://www.sonoma-marinfair.org) Click "Enter The Fair"  
DROP-OFF AT → Community Building  
**See Drop-off Schedule for receiving/release of exhibits.**

DANISH SYSTEM OF JUDGING - STICKER RIBBON ONLY  
AMERICAN SYSTEM OF JUDGING - CASH AWARDS OFFERED PER CLASS

1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
\$20.00	\$15.00	\$12.00

**NOTE:** The Industrial Education Department will be judged by the Danish System of Judging first then the Judge will go back through all the blue group winners by class and place them by the American System of Judging, 1<sup>st</sup>-3<sup>rd</sup>.

**RULES:**

1. Only projects made in school under the supervision of an Industrial Arts or Vocational Trade and Technical Teacher may be entered.
2. Projects made from assembly kits are not eligible (except where noted). Component parts should be made by exhibitor whenever reasonably possible, and judges will rate accordingly.
3. Projects must have been started and completed during the preceding school year.
4. A project may be entered for one award only.
5. No exhibitor may enter more than one article made from the same pattern.

**◆ DRAFTING ◆**

**SECTION 210 – ARCHITECTURAL MODELS, WOOD, ETC.**

**SECTION 211 – BASIC MECHANICAL HAND DRAWING**

Dimensioned orthographic or auxiliary views (single sheet only)

**SECTION 212 – BASIC CAD MECHANICAL DRAWING**

Dimensioned orthographic or auxiliary views (single sheet only)

**SECTION 213 – ADVANCED MECHANICAL HAND DRAWING**

Dimensioned ortho with exploded or isometric views  
(multi sheet sets okay)

**SECTION 214 – ADVANCED CAD MECHANICAL DRAWING**

Dimensioned ortho with exploded or isometric views or 3D  
models (multi sheet sets okay)

**SECTION 215 – ILLUSTRATIVE HAND MECHANICAL DRAWING**

Single sheet entry in perspective or isometric view or 3D models  
with shading or color

**SECTION 216 – ILLUSTRATIVE CAD MECHANICAL DRAWING**

Single sheet entry in perspective or isometric view or 3D models  
with shading or color

**SECTION 217 – BASIC HAND ARCHITECTURAL DRAWING**

Dimensioned floor plans or elevations (single sheet entry)

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**DRAFTING CONTINUED**

**SECTION 218 – BASIC CAD ARCHITECTURAL DRAWING**

Dimensioned floor plans or elevations (single sheet entry)

**SECTION 219 – ADVANCED HAND ARCHITECTURAL DRAWING**

Multi-sheet sets containing dimensioned plans elevations, details, sections

**SECTION 220 – ADVANCED CAD ARCHITECTURAL DRAWING**

Multi-sheet sets containing dimensioned plans elevations, details, sections (can include 3D models)

**SECTION 221 – ILLUSTRATIVE HAND ARCHITECTURAL DRAWING**

Single sheet entry in perspective or isometric view with shading or color

**SECTION 222 – ILLUSTRATIVE CAD ARCHITECTURAL DRAWING**

Single sheet entry in perspective or isometric view with shading or color (can include 3D models)

**SECTION 223 – ADV. ILLUSTRATIVE CAD ARCHITECTURAL DRAWING**

Single sheet entry in perspective or isometric view with shading or color (can include 3D models)

Class  
1 Grades 9 & 10

Class  
2 Grades 11 & 12

**◆ RESEARCH PROJECTS ◆**

**RULES:**

1. The object of the Research Project is to have students work with realistic problems dealing in Architecture and Engineering to develop problem solving skills.
2. All projects entered must be approved by the student's Voc-Ed teacher.
3. Exhibited projects and research papers shall be the result of the student(s) own efforts.
4. The official maximum size for the Research Projects is 48 inches wide by 30 inches deep (the distance from front to back) by 6 1/2 feet high.
5. Research papers are to be typed. The problem statement and solution statement must be included in the research papers.

**SECTION 224 – RESEARCH PROJECTS**

Class  
1 Individual projects  
2 Team of 3-4 Students  
3 Team of 5 or more students

**◆ METAL WORK ◆**

**SECTION 225 – METAL WORK GRADES 9 & 10**

**SECTION 226 – METAL WORK GRADES 11 & 12**

Class  
1 Sheet Metal Basic  
2 Sheet Metal Fabrication Advanced (Project made from 4 or more parts)

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**METAL WORK CONTINUED**

- 3 Art Metal (Free Form) One of a Kind
- 4 Foundry Basic (Single Items)
- 5 Foundry (3 or more parts which require machining and/or fabrication)
- 6 Machine work (individual parts or simple assemblies)
- 7 Machine work (Advanced or assemblies of 3 or more parts)
- 8 Advanced Metal Construction (Assemblies with machined parts, welded or fastener construction)
- 9 Welding Fabrication (Arc Projects assembled by arc welding only)
- 10 Welding Fabrication (Gas Projects assembled by gas welding only)
- 11 Bench Metal Construction (Projects formed by bending and assembling with rivets and/or bolts).
- 12 Basic Wrought Iron (Assemblies of small parts & scrolls welded or riveted) - decorative light duty items
- 13 Basic Wrought Iron (Assemblies of large parts & scrolls welded or riveted) - tables, chairs, racks, shelves, etc.
- 14 Any Metal Article (kit)

**◆ WOODWORKING ◆**

**SECTION 227 – WOODWORKING GRADES 9 & 10**

**SECTION 228 – WOODWORKING GRADES 11 & 12**

Class

- |   |  |    |                                   |
|---|--|----|-----------------------------------|
| 1 | Clocks                                 | 8  | Wall Unit or Book shelf           |
| 2 | Coffee Table or End Table              | 9  | Woodturning                       |
| 3 | Dresser or Large Chest                 | 10 | Wooden Toys                       |
| 4 | Entertainment, Stereo, or T.V. Cabinet | 11 | Yard/Garden Furniture             |
| 5 | Jewelry Box                            | 12 | Other Woodworking, please specify |
| 6 | Cheese Board                           |    |                                   |
| 7 | Other Floor Furniture                  |    |                                   |

**SECTION 229 – INDUSTRIAL EDUCATION AWARDS (Do not enter)**

Class

- 1 Best Of Show Drafting----- \$25 & Rosette  
*Sponsored by Richard R. Van Anda*
- 2 Best Of Show Metal Work----- \$25 & Rosette  
*Sponsored by In Memory of Carlton "Bud" Liddle*
- 3 Best Of Show Woodworking----- \$25 & Rosette  
*Sponsored by Adrienne and Martin D. "Buzz" Rodgers*
- 4 Best Of Show Research Projects ----- \$25 & Rosette  
*Sponsored by In Memory of Adele & Gus Kovats*

<b>SCORECARD FOR JUDGING INDUSTRIAL EDUCATION</b>	
Appearance .....	20%
Workmanship .....	25%
Originality .....	20%
Neatness .....	10%
Utility .....	25%
<b>TOTAL .....</b>	<b>100%</b>