



**AMERICAN DESIGN DRAFTING ASSOCIATION  
41st ANNUAL DESIGN DRAFTING CONTEST**

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**Attachment 5  
'Tool Post'**

**Mechanical Division A3, AC3, B3 and BC3 - Mechanical**

This entry requires the use of the reference, Technical Drawing, any edition, by Giesecke, et.al., published by Prentice Hall. The problem is available in previous editions of the text; however, it may have a different figure number. **If a version of this text is not available to you, contact the contest chair, Tony Whitus, and one will be provided.**

**What You Are To Do:**

Prepare a set of working drawings for the Tool Post, Figure 14.67 (12<sup>th</sup> edition) in the text listed above. The drawings will be constructed using standard 'B'- size (11" x 17") sheets; a maximum of four sheet may be used, each containing a typical mechanical title block. The drawing package must include the following.

**Assembly Drawing**

- The Assembly Drawing should contain a single orthographic view identifying all the individual parts and show their relationship to each other
- Bill Of Materials (Parts List)
- Identification Balloons must be used to identify the individual parts

**Detail Drawings**

- Detail drawings of the individual parts and their machining details must contain a minimum of 2 standard orthographic views using 3rd angle projection.
- Detail drawings of the individual parts must be fully dimensioned, demonstrating tolerance considerations. (ANSI Y14.5M)
- Identification Balloons will be used underneath each detail to identify the
  - Name of the detail.
  - Number required.
  - Material, using the SAE Steel Numbering System.
- Entry in Divisions A3 & AC3 **must use Geometric Dimensioning & Tolerancing to define tolerancing and relationship requirements. FAILING TO DO SO WILL BE AN AUTOMATIC REDUCTION OF 10 POINTS FROM TOTAL SCORE.**