MANUFACTURABILITY REVIEW
DRAWING CHECKLIST READING GUIDE

"Engineering Drawing", A. W. Boundy, McGraw Hill (8th Edition)

Orthogonal Drawing:	**Chapter**	**Page**
Is the drawing drawn in third angle projection?	**6.2**	**p.146**
Are the drawing views labelled appropriately (i.e. TOP VIEW, FRONT VIEW, etc?	**6.2**	**p.147**
Are the drawing view names (i.e. FRONT VIEW, TOP VIEW etc) centred under the respective drawing view?	**6.2**	**p.147**
Are capital letters used for the drawing view names?	**1.3**	**p.8**
Are centre lines and hidden lines shown in the drawing views?	**1.4** **6.3** **10.1**	**p.9** **p.150** **p.280**
Are there any redundant drawing views (i.e. do you have two drawing views that are the same)?	**6.2**	**p.148**
Is there an isometric view of the product/component appropriately placed on the drawing?	**8.3**	**p.214**

Title Block:	**Chapter**	**Page**
Are all the sections of the Title Block completed?	**9.1**	**p.244**
Is an appropriate Australian Standard drawing scale used (i.e. 1:1, 1:2, 5:1, etc)?	**1.6** **9.1**	**p.10** **p.244**
Is the type of material the component is made from specified?	**9.1**	**p.244**
Is your name **and** student number indicated in the Designed/Drawn by section of the title block?	**9.1**	**p.244**
Is checker name **and** student number indicated in the Checked/Check by section of the title block?	**9.1**	**p.244**
Is the date the drawing was completed indicated?	**9.1**	**p.244**
Is the name of the product/component specified (i.e. BASE, PISTON, etc)?	**9.1**	**p.244**
Is the drawing sheet size specified (i.e. A4, A3, A2, etc)?	**1.7** **9.1**	**p.11** **p.244**
Is a drawing number specified for the General Assembly and each component drawing?	**1.8** **9.1**	**p.13** **p.244**
Is a sheet number given for the General Assembly and each part drawing?	**9.1-9.2**	**p.244**
Are capital letters used to complete the various sections of the title block?	**1.3**	**p.8**
Dimensioning:	**Chapter**	**Page**
Is an appropriate dimensioning technique used (i.e. origin or Incremental dimensioning)?	**2.1** **4.1** **6.3**	**p.20** **p.78** **p.151**
Are there any double dimensions?	**6.3**	**p.151**
Are dimensions placed in ascending order (i.e. lowest to highest)?	**2.1**	**p.23**
Are threaded holes and shafts appropriately dimensioned?	**2.3**	**p.34**
Are counter bore and counter sunk holes appropriately dimensioned?	**2.2**	**p.25-28**
Are dimensions placed off the drawing views?	**2.1**	**p.20**
Are your dimensions easy to interpret (i.e. could someone else make your component if you gave them your drawing)?	**6.3**	**p.151**
Tolerances:	**Chapter**	**Page**
Are appropriate tolerances specified in the drawing?	**4.1**	**p.66-78**
Section View:	**Chapter**	**Page**
Is the Section view placed in accordance with third angle projection?	**3.2**	**p.47**
Have you specified where you sectioned the drawing with section arrows?	**3.1**	**p.43**
Are threads and shafts not sectioned?	**3.1**	**p.43**

Written By Chris Chare and Farhan Qureshi 1/9/09 edited by Christopher Richa 07/08/2012

Bill of Materials:	Chapter	Page
For the General Assembly drawing is a Bill of Materials specified?	**1.8** **9.2**	**p.11** **p.244**
In the General Assembly drawing, are the components appropriately labelled to relate back to the Bill of Materials?	**9.2**	**p.244**

Additional Assessment Criteria for Manufacturability Review

General:	Chapter	Page
Are appropriate font sizes applied?	**1.2**	**p.8**
Are correct line types applied?	**1.4**	**p.9**
Are correct line thicknesses applied?	**1.5**	**p.10**
Is the titleblock in the bottom right corner of the drawing frame?	**1.8** **9.1**	**p.11** **p.244**
Is the Bill of Materials placed on top of the titleblock and against the right hand drawing frame?	**1.8**	**p.13**
Are general notes placed on top of or to the left of the titleblock?	**9.1**	**p.244**
Are the dimensional units specified?	**9.1**	**p.244**
Is the applied drawing standard specified?	**9.1**	**p.244**
Is Do Not Scale applicable to your drawing?	**9.1**	**p.244**