

Mechanical Engineering CADD

Competition Brief

entry requirements	
Who can enter?	The competition can be entered by individuals at either level 3 (advanced) for those at college or level 4 (higher) for those at university.
Competition structure	<p>Register online at www.skillcadd.org.uk by 31st March 2008 to access the competition brief.</p> <p>Stage one: Passive: Once you have registered, competition tasks will be made available for you to download from the 1st - 14th April 2008.</p> <p>Please note that once you have downloaded the competition tasks you will have 48 hours to complete and submit your entry.</p> <p>Stage two: Live: The top 10 highest scoring competitors from the stage one are invited to attend a two day live UK final competition in May 2008.</p> <p><i>To be illegible to enter the WorldSkills Competition 2009, Canada, competitors must be born on or after 1 January 1987. For competitors interested in entering WorldSkills 2011 in London, competitors must be born on or after 1 January 1989.</i></p> <p>See the competition description overleaf for more information</p>

Enter online at www.skillcadd.org.uk by 31 March 08

contact details

For technical advice about the competition contact:

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For general information about competitions please contact the WorldSkills UK contact centre:

Free phone: 0800 612 0742

Email: skilleng@ukskills.org.uk

competition description

Competitors may use Autodesk Inventor or Solidworks software to complete the tasks.

Both stages of the competition will test a competitor's performance using CADD to produce 2D technical drawings, 2D Assembly drawings, 3D Models and 3D Assemblies. In addition, level 4 competitors will be required to produce animations and include GDT (Geometrical Dimensioning and Tolerancing) in technical drawings.

Competitors should be fully conversant with BSI/ISO drawing standards and be able to use them effectively in different situations.

Stage one:

The competition will be provided via web download from 1st – 14th April 08 after you have registered and will include:

- Description of the tasks
- Required Models
- Drawing Templates
- Marking Criteria

The competition tasks are defined by the level of entry:

Level 3 (advanced):

- Use parametric modeling techniques to produce parts.
- Create an assembly from modeled and given parts.
- Produce exploded views and drawings.
- Produce technical drawings from a given part.

Level 4 (higher):

All of the above plus:

- Produce animations of moving assemblies.

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- Produce animations of exploded views.
- Produce technical drawings with GDT.

The full set of competitions tasks will be available for download from 1st – 14th April 08.

Stage two:

The top ten highest scoring competitors from stage one will be invited to attend the UK live final which will last 2 days (12 hours). The competition will reflect Worldskills International standards.

Marking and assessment

- The competition brief will include a breakdown of the marking criteria.
- The marking criteria will reflect the relevant significance of each. Marking will be 90% Objective and 10% Subjective.
- Assessment will be through inspection and interrogation of the files provided.
- Each competition task will be assessed and marked independently of each other task.
- Each task will be assessed and marked in accordance with general and specific competition rules.
- All competitors will receive notification of their assessment outcomes.

judging

A panel of judges have been drawn from industry, further education, higher education and training providers. The judges' decisions will be independently moderated and quality assured by UK Skills before being confirmed.

rules

- The competitions will be largely practical and will be for individuals (not teams)
- The regional competition will be delivered and returned online.
- The competition will comprise of a selection of tasks to suit the level of the competition.
- The tasks may be carried out using Autodesk Inventor or Solidworks CAD software.
- The competition must be conducted in accordance with the general and specific competition rules.

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