

CNC Milling and Turning

Competition Overview

entry requirements	
Who can enter?	<p>These competitions are for any technician who has been involved in CNC milling and/or turning for up to 7 years through relevant training, work experience and/or employment.</p> <p>The competition is open to all technicians born on or after 1 January 1987 for a chance to compete in Calgary 2009 or born on or after 1 January 1989 for a chance to compete in London 2011</p> <p>Up to 3 competitors can be entered per organisation per competition</p>
How to enter	<p>Register online at www.worldskillsuk.org.uk by 18 April 2008</p>

contact details	
<p>For technical advice about the competition contact: Dick O'Donohue Phone: 07866667927 Email: dickodonohue@hotmail.com</p> <p>For general information about competitions please contact the WorldSkills UK contact centre: Free phone: 0800 612 0742 Email: skilleng@ukskills.org.uk</p>	

Enter online by 18 April 08

competition description

Competition structure

Stage 1: competitors are invited to attend a one day workshop in April/May 2008 to familiarise themselves with the equipment and projects.

Stage 2: competitors will compete in the 2 day UK final at Anniesland College from 27 - 28 June 2008

CNC Milling

Competitors will manually programme and produce two 6 hour milling projects manufactured to a high standard both dimensionally and with regard to surface finish, using either Fanuc, Heidenhain or Siemens programming. Each project will be machined on two faces and include such feature as external contour, milling channels, hollow-out bore, tapped holes, reamed holes and pocket milling.

CNC Turning

Competitors will produce two turned components to follow the guidelines above but the features will include turned diameters, undercuts, angles, screw threads and machined profiles.

The competition projects will be available on the day of the competition. Competitors will be given time to familiarise themselves with the activities.

Marking and assessment

Work will be marked according to Worldskills format. Marks will be awarded for accuracy and surface finish. The marks will be split across different features, for example 50marks for the main dimensions, 25marks for secondary dimensions, 8 marks for surface finish, 12 marks for conformity to drawing, with 5 marks for only using ONE piece of material.

The conformity to drawing marks will be split as machined chamfers 3marks, chamfered by hand 1mark, contour damage 2 marks, conformity to drawing 1st face 3 marks, conformity to drawing 2nd face 3 marks,

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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

Each competitor will, without assistance manually programme and machine the components using the programming language of their choice from Fanuc, Heidenhain or Siemens. The 6 hours will be split into a minimum of 2 hours 15minutes programming time with a maximum of 3 hours 45 minutes machining time. If a problem occurs with the machine then a technician will assess if it is a problem with the control or the programme. If it is with the control the time required to correct such will be added to the competitors time allocation. The Judges decision is final.

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