



ITE 06/18/01

Press Release No. 04/11

**Our Nation's Finest Youths Battle for Pride in WorldSkills Singapore 2011  
*Creative Modelling and Visual Merchandising to debut in this year's competition***

Pride drives excellence and peak performance. Motivated by pride and empowered by their skills, 161 Singaporean youths will be participating as Finalists of the **WorldSkills Singapore (WSS) 2011** from 20 to 22 January 2011.

2 **Senior Minister, Mr Goh Chok Tong** will officially open the competition on **Thursday 20 January 2011 at 1000 hours**. Speeches of Senior Minister and Mr Bruce Poh, Director & CEO of the Institute of Technical Education (ITE), will be released at the Ceremony.

3 The biennial WSS series aims to recognise the talents of young, skilful Singaporeans, and raise the standards of excellence in technical skills to build world-class competencies. Top Medallists of WSS 2011 stand a chance to represent Singapore at the prestigious 41<sup>st</sup> WorldSkills Competition (WSC) to be held in London, England, in October this year.

4 At the 40<sup>th</sup> WSC in Calgary, Canada, in 2010, the 19-member Team Singapore contingent garnered 3 Golds in Caring (*Nursing*), Graphic Design Technology, and IT-PC/Network Support, and a Bronze for Mobile Robotics. Our Gold Medallist in IT-PC/Network Support, Tan Thiam Shui, also bagged the prestigious Albert Vidal Award, which is awarded to the Overall Top Scorer in the whole competition.

**Two New Competition Areas**

5 A total of 18 competition areas in a range of specialisations will be offered at WSS 2011, which is principally sponsored by the Singapore Totalisator Board and Singapore Workforce Development Agency. Details of the competition scope are in **Annex A** and Main Sponsors of the respective competition areas are in **Annex B**.

6 Two new skills areas – **Creative Modelling** and **Visual Merchandising** – have been introduced this year. Isabel Song QingSen, who is representing Singapore Polytechnic (SP) in Creative Modelling, said: “I am excited about Creative Modelling being featured as a skills category for the first time in the WorldSkills Singapore Competition. My passion for model-making is developed through various projects I undertook for my Diploma in Experience and Product Design at SP. Transferring techniques I have learned in class into my projects makes my learning journey worthwhile. My skills improve each time I see a project from conceptualisation to completion. I believe in taking pride in my work as it will help me to do better. I hope to represent Singapore at the WorldSkills Competition in London this year.”

7 Nur Azura Binte Azmir, who is representing ITE in Visual Merchandising, shared: “I am honoured to represent ITE. My lecturers and I have been working hard for this competition. We came back almost every day during the vacation for coaching and training. I am confident of my chances and hope to do my best at the Competition.”

8 The finalists for WorldSkills Singapore 2011 hail from ITE, the Polytechnics, and other institutions or companies, such as SHATEC, Assumption Pathway School and Motor Image Enterprise Pte Ltd.

### **Invitation to Media Members**

9 Media members are cordially invited to report on the WorldSkills Singapore 2011 Opening Ceremony on **Thursday, 20 January 2011 at 1000 hours**. The Ceremony will take place at the Auditorium, Block 2, Level 7, ITE College West, 1, Choa Chu Kang Grove. The programme for the ceremony is at **Annex C** and the location map of ITE College West is at **Annex D**.

10 Results of the Competition will be announced at the WSS 2011 Closing and Prize Presentation Ceremony on 26 January 2011, to be officiated by Mr Gan Kim Yong, Minister for Manpower.

11 For further information and arrangements for interviews, please contact Ms Jamie Chan, Head/Media, on Tel: 65902026, Email: [Jamie.Chan@ite.edu.sg](mailto:Jamie.Chan@ite.edu.sg), or Mr Victor Yen, Head/Stakeholder Communications, on Tel: 6590 2028, Email: [Victor.Yen@ite.edu.sg](mailto:Victor.Yen@ite.edu.sg).

The **Institute of Technical Education (ITE)**, Singapore, was established as a post-secondary education institution in 1992 under the Ministry of Education. ITE is a principal provider of career and technical education and key developer of national occupational skills certification and standards to enhance Singapore's workforce competitiveness. Under its "**One ITE System, Three Colleges**" Model of Education and Governance, ITE has three Colleges, comprising **ITE College Central**, **ITE College East** and **ITE College West**.

## COMPETITION AREAS AND SCOPE OF COMPETITION

Competition Area	Description
Automotive Technology	Competitors are required to: <ul style="list-style-type: none"> <li>• Diagnose and rectify faults.</li> <li>• Maintain and repair cars' systems and components</li> </ul>
Caring	Competitors are required to: <ul style="list-style-type: none"> <li>• Assess the caring needs of the client</li> <li>• Plan the caring needs of the client</li> <li>• Implement the care plan for the client</li> <li>• Have theoretical knowledge to carry out the tasks</li> </ul>
CNC Milling	Competitors are required to: <ul style="list-style-type: none"> <li>• Write/generate part programmes for CNC Milling</li> <li>• Set up a CNC Milling machine to produce components to specifications achieving up to International Tolerance (IT) 7 for dimensions and 0.8 micron for surface roughness</li> </ul>
CNC Turning	Competitors are required to: <ul style="list-style-type: none"> <li>• Write part programmes for CNC Turning of components</li> <li>• Set up a CNC lathe to produce components to specifications achieving an accuracy of 0.01mm for dimensions and 0.8 micron for surface roughness</li> </ul>
Cooking	Competitors will be required to prepare and present the following range of specified dishes: <ul style="list-style-type: none"> <li>• Finger Food</li> <li>• Fish</li> <li>• Lamb</li> <li>• Cold Dessert</li> <li>• Hot Dessert</li> <li>• 2-course menu using ingredients from a mystery basket</li> </ul>

<p>Creative Modelling</p>	<p>Competitors will be required to:</p> <ul style="list-style-type: none"> <li>• Create a 3D drawing using a CAD System of a specified product</li> <li>• Prepare a 2D drawing from the 3D drawing, and a presentation report</li> <li>• Produce a model using the 2D drawing</li> <li>• Paint the model that was produced</li> </ul>
<p>Electronics</p>	<p>Competitors will be required to:</p> <ul style="list-style-type: none"> <li>• Design and complete an electronic project</li> <li>• Design and complete a software project using C18 programming language</li> <li>• Assemble a kitset assembly on a pre-made PC</li> <li>• Test and measure electronic signals in an electronics circuit</li> <li>• Test, locate and replace faulty electronic components in a given circuit</li> <li>• Take a theoretical test on electrical and electronics principles and circuit</li> </ul>
<p>Graphic Design Technology</p>	<p>Competitors will be required to:</p> <ul style="list-style-type: none"> <li>• Interpret graphics, including 2D and 3D design</li> <li>• Develop graphic design involving design creation and typography; software application and printing; and file formatting and presentation</li> <li>• Produce final design using computer graphics and utility programmes</li> <li>• Use the Desktop publishing software (Adobe CS4)</li> </ul>
<p>Industrial Control</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Plan, wire up and test a PLC-controlled electrical power and control installation, including configuring human machine interface (HMI) operator panel and programming the PLC for desired system operation</li> <li>• Design and/or modify a relay logic control and/or power circuit in accordance with a set of specifications and/or Grafcet diagram</li> <li>• Locate and identify faults in a given control and/or power circuit</li> </ul>

<p>Information Network Cabling</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Install and test a campus distribution cabling setup</li> <li>• Plan, install and test a multimedia cabling project from an outdoor distribution point to indoor multimedia ports</li> <li>• Install a fiber distribution enclosure</li> </ul>
<p>IT Network Systems Administration</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Install, configure and optimise the operating systems in personal computers (both client and server workstations) for a Local Area Network/Wide Area Network (LAN/WAN) environment</li> <li>• Install software packages onto personal computers (both client and server workstations) for a LAN/WAN environment according to given specifications</li> <li>• Interconnect and configure client/server workstations and networking equipment to setup LANs/WANs according to given specifications</li> <li>• Administer a secure LAN/WAN and its components using various software and/or hardware tools</li> <li>• Implement maintenance procedures, e.g. data backup, virus detection and removal, etc., according to given specifications</li> <li>• Employ systematic methods to identify and rectify problems in client, server workstations and networking equipment</li> <li>• Install, maintain and troubleshoot IP Telephony systems, devices and software in a Small and Medium Business (SMB) environment</li> </ul>
<p>IT Software Solutions for Business</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Use the microcomputer operating system to manage files and data</li> <li>• Produce business documents of a standard that meets given requirements</li> <li>• Build a database, design and use forms and reports</li> <li>• Construct a spreadsheet, create charts and graphs, collaborate and use the following: design and analysis tools, data and table functions, graphical objects, multiple workbooks, auditing features</li> <li>• Create a document, use the following: mail</li> </ul>

	<ul style="list-style-type: none"> <li>merge, referencing</li> <li>• Create a presentation, add special effects and graphical objects, collaborate, prepare for delivery, publish slides and share presentations</li> <li>• Customise and automate processes</li> <li>• Share data across applications</li> </ul>
<p>Mechanical Engineering Design CAD</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Create 3D solid and parametric models, with colour rendering, to solve engineering problems and to determine appropriate information such as surface area, perimeters, moment of inertia, mass and centroids</li> <li>• Prepare assembly drawings and detailed part drawings of mechanical assemblies and components for manufacturing based on drafts, notes, or physical models</li> <li>• Prepare drawings, schematics, graphical representations and charts required to fully articulate the motion study of parts in a mechanical assembly</li> <li>• Implement engineering change orders by modifying existing components and assemblies, and adapt new parts and fixtures to existing parts and assemblies</li> </ul>
<p>Mechatronics</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Solve logic problems</li> <li>• Carry out system design</li> <li>• Assemble a machine according to documentation</li> <li>• Design a program for controlling a machine</li> <li>• Connect a machine to its control system</li> <li>• Commission the machine to carry out its correct function to solve a series of practical operating problems</li> <li>• Interpret appropriate forms of technical documentation (e.g. circuits, displacement-step diagram)</li> <li>• Design electrical and pneumatic circuits by hand or by using commercially available software</li> </ul>

<p>Mobile Robotics</p>	<p>Competitors are required to program and configure the competition robot to perform various tasks, including:</p> <ul style="list-style-type: none"> <li>• Analyse and carry out a given task</li> <li>• Carry out mobile robot system design</li> <li>• Disassemble and assemble a mobile robot</li> <li>• Design/Fabricate add-on component(s) [e.g. gripper, kicker]</li> <li>• Design a mobile robot control programme</li> <li>• Integrate external sensors, controllers, actuators and attachments to the mobile robot</li> <li>• Test and troubleshoot problems</li> <li>• Interpret manufacturer's technical documents</li> </ul>
<p>Restaurant Service</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Identify a variety of wines</li> <li>• Prepare cocktails, aperitifs, and special beverages</li> <li>• Prepare a theme display table</li> <li>• Set up a table including a napkin folding for four persons based on a given menu</li> <li>• Lead guests to table, take orders and serve food and beverages, including wine</li> <li>• Perform carving and tableside cooking</li> <li>• Perform closing duties</li> </ul>
<p>Visual Merchandising</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Research the theme and product for the window display</li> <li>• Design and plan window display</li> <li>• Prepare and install window display</li> <li>• Present the window display to jury panel</li> </ul>
<p>Web Design</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Plan, design, construct, with the purpose to publish web documents to the Internet according to given technical specifications</li> </ul>



## KEY SPONSORS FOR WORLDSKILLS SINGAPORE 2011

<u>Principal Sponsors</u>	
Singapore Totalisator Board Singapore Workforce Development Agency	
<u>Main Sponsors</u>	
<b>Sponsor</b>	<b>Competition Area</b>
ABB Pte. Ltd.	Industrial Control
AsiaPac Distribution Pte Ltd <i>(Partnership with Fujitsu PC Asia Pacific Pte Ltd)</i>	IT Network Systems Administration
Association of Process Industry	General Category
Autodesk Asia Pte Ltd	Mechanical Engineering Design - CAD
Cisco Systems (USA) Pte. Ltd.	IT Network Systems Administration
Festo Pte. Ltd.	Mechatronics
	Mobile Robotics
Fluke South East Asia Pte Ltd	Electronics
Fujitsu PC Asia Pacific Pte Ltd <i>(Partnership with AsiaPac Distribution Pte Ltd)</i>	IT Network Systems Administration
Hakko Products Pte Ltd	Electronics
Heidenhain Pacific Pte Ltd	CNC Milling
Isetan Foundation	Visual Merchandising
Keppel Offshore & Marine Ltd	General Category
Kingsmen Creatives Ltd	Creative Modelling
Lee Foundation	General Category
Marina Bay Sands Pte Ltd	Restaurant Service
Oracle Corporation Singapore Pte Ltd	Web Design
Saatchi LAB	Graphic Design Technology
Sandvik South East Asia Pte Ltd	CNC Turning
Sia Huat Pte Ltd	Cooking
Singapore Health Services Pte Ltd	Caring

**WORLDSKILLS SINGAPORE 2011 OPENING CEREMONY**  
**Thursday 20 January 2011**  
**Auditorium, Block 2 Level 7, ITE College West**

---

**Programme**

0930 hrs	Guests to be seated
0950 hrs	Arrival of Guest-of-Honour (GOH) <b>Mr Goh Chok Tong</b> Senior Minister
1000 hrs	Welcome Performance by Republic Polytechnic  Welcome Address by Mr Bruce Poh, Director & Chief Executive Officer, ITE, and Chairman, WorldSkills Singapore Council  Speech by GOH  Official Launch of WorldSkills Singapore 2011  Presentation of Mementos to Principal and Main Sponsors by Mr Bruce Poh  Student Performances by ITE's Centre for Music and the Arts
1100 hrs	Reception  Tour of WorldSkills Singapore 2011 Competition Sites
1230 hrs	End of Programme

**Location Map of Regional Campus of ITE College West  
1 Choa Chu Kang Grove, Singapore 688236**

