

ITE 06/18/01

Press Release No. 20/08

**Battle for Skills Glory Begins at WorldSkills Singapore Competition 2008**  
***Beauty Therapy and Caring to debut in this year's Competition***

From 16 to 18 October 2008, some 160 Singaporean youths will pit their skills against one another in a race to be crowned the "Singapore Skills Idol" of their respective competition areas. They are the finalists of **WorldSkills Singapore (WSS) 2008**, a biennial skills competition organised by ITE, in conjunction with the five Polytechnics.

**2 RAAdm (NS) Lui Tuck Yew, Senior Minister of State for Education and Information, Communications & the Arts**, will officially open the competition on **Thursday 16 October 2008 at 1500 hours**.

**3** Held for the eighth time, the biennial WSS series aims to recognise the talents of young, skilful Singaporeans, and raise the standards of excellence in technical skills to build competencies. Top Medallists of WSS 2008 stand a chance to represent Singapore at the prestigious 40<sup>th</sup> WorldSkills Competition (WSC) to be held in Calgary, Canada, in 2009.

**4** At the 39<sup>th</sup> WSC in Shizuoka, Japan last year, the Singapore contingent garnered three Golds, a Bronze and six Medallions of Excellence. This led to Singapore being ranked fifth among 47 countries, in medal tally.

**Two New Competition Areas**

**5** A total of 17 competition areas in a range of specialisations will be offered at WSS 2008. Details of the competition scope are in **Annex A** and the main sponsors of the respective competition areas are in **Annex B**.

**6** Two new skills areas – **Beauty Therapy** and **Caring** – have been introduced this year. Josephine Ong Yun Ting, who is representing ITE's Nursing cohort in Caring, shared: "Being the pioneer batch means we will be setting the benchmark for the subsequent years. My team-mate and I started to prepare for this competition as early as a year back. We aspire to win the Gold Medal and represent Singapore at the WorldSkills Competition 2009 in Calgary, Canada!"

7 The finalists for WorldSkills Singapore 2008 hail from ITE, the Polytechnics, and private institutions or companies, such as Shatec Institutes, Jean Yip and Motor Image. They were selected from some 318 competitors, who registered for the Qualifying Rounds of the competition, when the call for participation was made in March this year.

### **Invitation to Media Members**

8 Media members are cordially invited to cover the Official Opening of WorldSkills Singapore 2008 on **Thursday, 16 October 2008 at 1500 hours**. The venue will be at ITE College East, 10 Simei Avenue, Singapore 486047. The programme for the ceremony is at **Annex C** and the location map of ITE College East is at **Annex D**.

9 Results of the Competition will be announced at the WSS 2008 Closing and Prize Presentation Ceremony on 23 October 2008.

10 For further information and arrangements for interviews, please contact Ms Joycelyn Seet, Head/Online Communications, on Tel: 6590 2027, Email: [Joycelyn\\_Seet@ite.edu.sg](mailto:Joycelyn_Seet@ite.edu.sg).

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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>
Beauty Therapy	Competitors are required to: <ul style="list-style-type: none"> <li>• Analyse an individual client's needs and design</li> <li>• Set up the treatment area; and</li> <li>• Perform a suitable treatment program.</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 programs 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 programs for CNC turning of components</li> <li>• Set up a CNC lathe to produce components to specifications achieving up to International Tolerance (IT) 7 for dimensions and 0.8 micron or better for surface roughness</li> </ul>
Cooking	Competitors are required to prepare and present the following range of specified dishes such as fish, finger food, dessert, a dish based on a given recipe and a three-course menu using ingredients from a mystery basket

<p>Graphic Design Technology</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Interpret graphics, including 2D and 3D design</li> <li>• Develop graphic design involving phases such as 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 programmes such as desktop publishing software, illustration software, image treatment software, compression software, and fonts and accessories</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>Industrial Electronics</p>	<p>Competitors are 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 PCB</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>Information Technology – PC &amp; Network Support</p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Assemble a fully-functional personal computer from given components, including the selection, installation and testing of appropriate add-on and/or upgrade components</li> <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> </ul>

	<ul style="list-style-type: none"> <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, eg 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> </ul>
<p>Information Technology – Software Applications</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 meet given requirements</li> <li>• Create and manage a database and generate reports</li> <li>• Create, edit and modify spreadsheets and produce graphs and reports</li> <li>• Create, edit and manipulate graphics and drawings</li> <li>• Create and produce slide show (video) presentations containing texture and graphical information</li> <li>• Use network to maintain a diary, and to send and receive electronic mail</li> <li>• Use a network to maintain a diary, and to send and receive electronic mails</li> <li>• Use communications software and a modem to exchange data on network services</li> <li>• Use data capture systems/devices such as optical character reader and scanner</li> </ul>
<p>Mechanical Engineering Drawing &amp; Design CADD</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> </ul>

	<ul style="list-style-type: none"> <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><b>Mechatronics</b></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>• Document procedures carried out</li> <li>• Interpret appropriate forms of technical documentation (eg circuits, displacement-step diagram)</li> <li>• Design electrical and pneumatic circuits by hand or by using commercially available software</li> </ul>
<p><b>Mobile Robotics</b></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 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><b>Restaurant Service</b></p>	<p>Competitors are required to:</p> <ul style="list-style-type: none"> <li>• Set up a table including napkin folding for 4 persons based on a given menu</li> <li>• Perform carving and tableside cooking</li> <li>• Prepare cocktails, aperitifs, and special beverages</li> <li>• Lead guests to table, take orders and serve food and beverages, including wine</li> <li>• Prepare a theme display table</li> </ul>

Telecommunication Distribution Technology	Competitors are required to: <ul style="list-style-type: none"><li>• Install and test a campus distribution cabling setup involving UTP(ScTP), multiple and optical cables</li><li>• Plan, install and test a multimedia cabling project from an outdoor distribution point to indoor multimedia ports</li><li>• Install a fibre distribution enclosure</li></ul>
Web Design	Competitors are required to: <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 2008**

<u>Principal Sponsors</u> Singapore Totalisator Board Singapore Workforce Development Agency	
<u>Peak Performance Sponsor</u> <i>Team Singapore</i> <i>WorldSkills Calgary 2009</i>  Lee Foundation	
<u>Main Sponsors</u>	
<b>Competition Area</b>	<b>Sponsor</b>
Automotive Technology	Borneo Motors (Singapore) Pte Ltd
Beauty Therapy	Luxasia Pte Ltd
Caring	Singapore Health Services Pte Ltd
CNC Milling	Heidenhain Pacific Pte Ltd
CNC Turning	Sandvik South East Asia Pte Ltd
Cooking	Sia Huat Pte Ltd
Graphic Design Technology	Saatchi LAB
Industrial Control	ABB Industry Pte Ltd
Industrial Electronics	Fluke South East Asia Pte Ltd
Information Technology – PC & Network Support	Cisco Systems (USA) Pte. Ltd.  Fujitsu PC Asia Pacific Pte Ltd <i>in partnership with</i> AsiaPac Distribution Pte Ltd
Information Technology – Software Applications	NEC Asia Pte. Ltd.
Mechanical Engineering Drawing & Design CADD	Autodesk Asia Pte Ltd
Mechatronics	Festo Pte. Ltd.
Mobile Robotics	Festo Pte. Ltd.
Restaurant Service	Thai Village Sharksfin Restaurant Pte Ltd
Telecommunication Distribution Technology	The Siemon Company Singapore Pte Ltd
Web Design	Oracle Corporation Singapore Pte Ltd
General Category	Alcotec Precision Engineering Pte Ltd
General Category	Association of Process Industry
General Category	Isetan Foundation
General Category	Keppel Offshore & Marine Ltd

**WORLDSKILLS SINGAPORE 2008 OPENING CEREMONY**  
**Thursday 16 October 2008**

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**Programme**

1445 hrs	Guests to be seated
1455 hrs	Arrival of Guest-of-Honour <b>RAdm (NS) Lui Tuck Yew</b> Senior Minister of State, Ministry of Education & Ministry of Information, Communications and the Arts
1500 hrs	Welcome Address by Mr Bruce Poh, Director & Chief Executive Officer, ITE, and Chairman, WorldSkills Singapore Council  Presentation of Certificates of Appreciation to Co-Sponsors by Mr Bruce Poh  Address by Guest-of-Honour  Presentation of Mementos by Guest-of-Honour to: <ul style="list-style-type: none"><li>• Main Sponsors of WSS 2008</li><li>• Sponsor of Singapore's Participation at WorldSkills Calgary 2009</li><li>• Principal Sponsors WSS 2008</li></ul> Official Launch of WorldSkills Singapore 2008  Presentation of WorldSkills Singapore Theme Song
1600 hrs	Tour of WorldSkills Singapore 2008 Competition
1645 hrs	Reception and End of Programme

LOCATION MAP OF ITE COLLEGE EAST

