

## Skill Media Highlights

| Skill                              | Skill<br>Num<br>ber | Key times to visit   | Highlights   | Unique Elements  | Skill Contact            |
|------------------------------------|---------------------|--|--|--|--------------------------|
| Polymechanics<br>and<br>Automation | 01                  | C1, C2, C3 – anytime (end of<br>the day may be the best to<br>witness the competition)<br>C4 – 11:00 to 13:00<br>Skill Ends at 15:00 | <ul> <li>10 competitors participating from Brazil, Thailand, Austria and Japan to name a few.</li> <li>The skill entails producing and installing parts for production machinery and equipment in areas that include electrical and mechanical engineering, and fitting hydraulics and mechanics.</li> <li>With the Industry 4.0, the skill has witnessed massive growth with new technological advancements.</li> </ul> | <ul> <li>The competitors have to be proficient in mechanical, electrical as well as integrating the two.</li> <li>The Expert from Japan, Ryo Takezaki, competed at the WorldSkills Abu Dhabi and is now preparing his young competitor for WorldSkills Kazan 2019. He is the proud winner of the Medallion of Excellence and has been part of the industry for about 5-6 years.</li> </ul> | Sherman<br>Mukoyama (CE) |



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|-----------------------------------|---------------------|--------------------|--|---|--------------------|
| Information<br>Network<br>Cabling | 02                  | Any time           | • The skill entails designing and installing cable systems for telecommunication and network communications. | <ul> <li>16 competitors participating, including 3<br/>females from India, Norway and Singapore.</li> </ul> | Edmund Tan<br>(CE) |



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| Manufacturing<br>Team<br>Challenge | 03                  | C2 - After 14:00   | <ul> <li>The team of complementary skilled specialists work to design, manufacture, assemble, and test new or improved equipment – either as a one-off item or as the prototype for mass production.</li> <li>Technicians skilled in project management, finance, organization, computer-aided design, programming, machining, welding, electronics, and fitting, form teams to tackle the Manufacturing Team Challenge.</li> </ul> | <ul> <li>8 countries are participating this year with 3 competitors each.</li> <li>Alan Quinterio, an Expert from Brazil competed in WorldSkills in 2007 and has been an Expert since 2011.</li> <li>The competitors will build wheelchairs for which the brief was given one year ago and all the raw materials were shipped here from Brazil to be machined on site.</li> </ul> | Anderson<br>Scalassara (CE) |



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| Mechatronics                     | 04                  | <ul> <li>Great activity and the most visually interesting time:</li> <li>C3 - 14:00 and 15:45 – 16:15 (Finish of Module C complete production line)</li> <li>C4 - 14:00 onward (evaluation of Module E Optimization of the production Line)</li> </ul> | <ul> <li>Mechatronics is the modern<br/>profession in the age of<br/>digitalization, which connects IT<br/>and all the different<br/>technologies in the field of<br/>automation.</li> <li>The most interesting elements<br/>during the Competition are the<br/>assembling of unknown<br/>production lines and the<br/>programming / optimizing of<br/>these production line.</li> <li>An HMI (Human Machine<br/>Interface) must be programmed<br/>and show data from different<br/>resources of production</li> </ul> | <ul> <li>The Competitors work in a team of 2, therefore they need high social competences to fulfil the tasks</li> <li>Most of them are able to communicate without words</li> </ul>  | Michael Linn<br>(SCM)<br>Nicolas Godel<br>(CE) |
| Mechanical<br>Engineering<br>CAD | 05                  | <ul> <li>Great activity and the most visually interesting time:</li> <li>C2 and C3 - 9:00</li> <li>C4 the 3D Scanner will be in use for 10 minutes from 9:00</li> <li>Skill Ends at 15:40</li> </ul>   | • 1 <sup>st</sup> Time use of 3D Scanners to complete skills   | <ul> <li>31 competitors this year. For the first time,<br/>Oman, Italy, Mexico, Jamaica are competing.<br/>US, Hong Kong and France are competing<br/>after a long time.</li> <li>Jennifer Guevara – lone female competitor<br/>from Columbia this year.</li> </ul> | Fabio de Souza<br>(CE)                         |



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| CNC Turning | 06                  | C4 – Team Challenge<br>8:30 – 12:00 Most activity<br>around 11:00  | <ul> <li>The test project includes "live<br/>tooling" which is industry<br/>standard, increasing the<br/>capabilities of the lathe to<br/>include milling</li> </ul>   | <ul> <li>Many experts are former Competitors, and<br/>can speak to what it takes to train,<br/>compete, and support future skilled talent.</li> </ul>                    | Susan LeFort<br>(CE)<br>Ilya Tonkikh<br>(DCE)  |
| CNC Milling | 07                  | C2 – Most action this day<br>C3 – 12:45 (First group of 16<br>competitors finish)<br>C4 – 12:45 (Second group of<br>16 competitors finish) | <ul> <li>Nearly everything we see or use today has been manufactured utilizing CNC technology – including cars, medical prosthetics, cell phones, toys, and more.</li> <li>The level of performance of the competitors has increased significantly over the years. Additionally, the machinery, cutting tools, technology has improved too/</li> </ul> | <ul> <li>31 countries participating in the competition         <ul> <li>will be divided into groups of 16 each and will be competing in 2 shifts.</li> </ul> </li> </ul> | Juerg LeFort<br>(CE)<br>Min Liang Liu<br>(DCE) |



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| Architectural<br>Stonemasonry            | 08                  | C2, C3, C4: 9:15 – 17:15   | <ul> <li>The competition involves<br/>working with natural stone,<br/>from granite to marble,<br/>creating components, carving,<br/>and cutting letters on sites<br/>from simple commercial<br/>buildings to historic structures.</li> <li>Very technical discipline</li> </ul> | <ul> <li>Most ancient craft at the WorldSkills<br/>International Competition. The skill involves<br/>using classic methodologies from 1000 of<br/>years ago.</li> <li>Hungary is the one country participating for<br/>the first time.</li> </ul>   | Bernhard<br>Hasenohrl (CE)<br>Diego Pereiro<br>(DCE)<br>Mark Payet –<br>Media contact -<br>+44<br>7757768692 |
| IT Software<br>Solutions for<br>Business | 09                  | C1- C4 – Every morning and<br>evening<br>Before the competition starts<br>and once it ends for the day,<br>all the competitors and<br>experts engage in a fun<br>activity such as a dance or<br>game.<br>Morning activity will happen<br>at 8:15<br>C4 – 13:30 Speed Module<br>scheduled | • The competition has a diverse set of test projects in which the competitors have to build software for mobile phones, laptops and also create solutions for the problems given.   | <ul> <li>An element of 'creativity' has been added to the skill competition which would be tested out in the Speed Module scheduled on C4. The competitors would be provided a problem that they have to solve as quickly and innovatively as possible. The audience can view the score at the screen placed in the centre of the skill area.</li> <li>29 countries participating, 27 countries competing.</li> </ul> | Harri Hautala<br>(CE)<br>Bong Win Ce<br>(DCE)  |



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|---------------------------|---------------------|---|--|---|---|
| Welding                   | 10                  | Any time is good to visit.<br>C2: 16:00 to 18:00<br>Skill Ends at 17:00 | <ul> <li>Skilled professionals in welding are referred as the "Master Manipulators of Molten Metal"</li> <li>The competition involves preparing and joining various types of metal, using both electrical and electrical-gas processes.</li> <li>Competition consists of 4 modules comprising Stick welding, Mig Welding, Tig Welding and flux welding.</li> </ul> | • Out of the 39 competitors, there is only 1 female competitor all the way from Norway.   | Ray Connolly<br>(CE)<br>Chih-Peng Chen<br>(DCE)                                 |
| Print Media<br>Technology | 11                  | C1 – C4:<br>16:00 to 18:00  | • There exists a severe shortage of skilled professionals in this trade. In countries like USA, there aren't enough people entering this trade.  | <ul> <li>15 countries competing with 3 countries participating for the first time and Finland re-joining the skill after a long time.</li> <li>60:40 – male: female ratio of competitors. It's great to witness participation from the women competitors. There is only one female expert this year.</li> </ul> | Patrick Klarecki<br>(SCM)<br>Douglas Moura<br>(CE)<br>Dominique<br>Gendre - DCE |



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| Wall and Floor<br>Tiling | 12                  | C4 – At the end, finished<br>product<br><b>Skill Ends at 13:00</b>      | <ul><li>Modular project</li><li>25 Male competitors</li></ul>  | • Projects are now more industry related   | David McCay<br>(SCM)<br>Guido van<br>Dingenen (CE)<br>Ezquiel Martins<br>(DCE) |
| Autobody<br>Repair       | 13                  | C1 – 11:00 to 13:00<br>C2 and C3 – 9:00 to 17:00<br>Skill Ends at 11:00 | <ul> <li>The skill competition provides a glimpse of what the automobile technicians do in the outside world.</li> <li>The skill involves repairing damaged light and heavy vehicles, including the exterior structure and panelling as well as complex mechanical components to strict safety and manufacturing standards.</li> </ul> | • 21 competitors participating in the competition, with 2 observing countries. The greatest part is that not only do the countries get a glimpse of the global standards but also, get to take back the knowledge to your home country. It empowers the countries and industry to rethink their way of teaching and thinking about the sectorial advancements. | Jesper Vang (CE)<br>Dhaval Rajput<br>(DCE)                                     |



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| Aircraft<br>Maintenance | 14                  | Anytime is good to visit.<br>The skill area has two<br>helicopters placed at the<br>competition area –<br>competitors would be working<br>on them through the day.<br>Skill Ends at 18:30 | <ul> <li>The technician during the<br/>Competition is aiming to certify<br/>aircraft by adhering to<br/>regulations, efficiently<br/>diagnose defects, effectively<br/>complete repairs, follow<br/>maintenance task instructions,<br/>and accurately document work.</li> <li>This year, two ANSAT<br/>Helicopters, locally<br/>manufactured by Kazan<br/>Helicopters are being used.<br/>The ANSAT is a mutli-roll, dual<br/>engine helicopter capable of<br/>carrying up to 8 passengers.<br/>ANSATs can be configured for<br/>both civilian and military<br/>missions, meeting the strict<br/>Category A safety standards set<br/>out by AP-29 (FAR-29). The<br/>ANSAT represents the latest in<br/>helicopter technology.</li> </ul> | <ul> <li>The Experts come from a wide range of different industry sectors. From military fighter aircraft to commercial airline operations to emergency medical transportation to instructing at training centers, each Expert contributes a unique view as to what constitutes a world-class aircraft maintenance professional. By working together, the competition reflects important elements from around the world.</li> <li>This year, three past competitors are returning as Experts. Mr. Abdulla Shehhi of the UAE and Mr. Joseph Kelly of Ireland both competed in WSC2013 Leipzig, while Mr. Rodrigo Campos of Brazil competed WSC2015 São Paulo.</li> <li>16 countries participating. South Africa is one of the countries participating for the first time.</li> </ul> | Martin Yates –<br>Chief Expert<br>Ryan Gillis<br>ESR<br>Representative<br>Expert<br>rdgillis@gmail.c<br>om |



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| Plumbing and<br>Heating | 15                  | Two Speed Test Modules each<br>1.5 hours to be done over 3 | <ul> <li>Part of the sustainability<br/>effort, they are donating</li> </ul> | <ul> <li>Large Skill – 30 Countries competing</li> <li>1 Female competitor from New Zealand</li> </ul> | Paul Dodds<br>(SCM) |
|                         |                     | days.  | toilets to Childrens Homes   |  | Markus Niedere      |
|                         |                     | C1 – 9:00 to 17:00   | in Kazan   |  | (CE)                |
|                         |                     | C2 – 9:00 to 17:00   |  |  |                     |
|                         |                     | C3 – 9:00 to 17:00   |  |  |                     |
|                         |                     | C4 - Team event<br>(Sustainability program)                |  |  |                     |
|                         |                     | Skill Completed  |  |  |                     |



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| Electronics | 16                  | C1 - 11:00<br>C1 - 14:00<br>C2 - 10:00<br>C3 - 10:00<br>C4 - 10:00<br>Skill Ends at 15:00 | <ul> <li>Electronics is very diverse<br/>field - Assembling and<br/>wiring products, testing<br/>systems, and designing<br/>prototype circuits. The<br/>modules include:         <ul> <li>Computer Aided<br/>Design</li> <li>Fault-Finding</li> <li>Programming – lots of<br/>mechanical movement</li> <li>Assembly of Electronic<br/>circuit board</li> </ul> </li> </ul> | <ul> <li>Gabriel D'Espindula – Expert for AE<br/>was a former Competitor winning<br/>Gold for Brazil in in London and is<br/>now the Expert/Trainer for UAE.</li> </ul> | Rudy Hofer<br>(SCM)<br>Jari Koskinen<br>(CE) |



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| Web<br>Technologies         | 17                  | C1 – Morning<br>C4 – Team Challenge (group<br>activity)                   | <ul> <li>Great Equaliser Skill meaning<br/>the skill is for all age groups –<br/>young as well as old. Everyone<br/>can find something interesting<br/>to gage their attention. Mark<br/>Du Bois, an expert from USA<br/>shares that he has been part of<br/>the industry since 27 years and<br/>everyday he got an opportunity<br/>to learn something new.</li> <li>The skill empowers the<br/>professionals to learn quickly,<br/>to recognize what's new and<br/>unlearn the stale.</li> </ul> | <ul> <li>33 countries participating this year.<br/>Witnessed as a male dominated skill across<br/>the globe, there are 3 girls competing from<br/>Mexico, Finland and Singapore.</li> </ul> | Seng Hin (SCM)<br>Marcelo Strehl<br>(Chief Expert) |
| Electrical<br>Installations | 18                  | C3 – Afternoon<br>C4 – Morning to afternoon<br><b>Skill Ends at 12:00</b> | <ul> <li>The skill has witnessed<br/>immense progression in<br/>technology which has made<br/>the skill only more interesting.<br/>In 2011, automation was<br/>introduced in the skill and since<br/>then the trade has evolved<br/>significantly.</li> </ul>   | • More than 30 countries participating this year. The growth of some of the countries has shown a significant impact.   | Luke Boustridge<br>(CE)                            |



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| Industrial<br>Control                | 19                  | C2 – All Day       | <ul> <li>Three elements: Correct<br/>Installation, Programming and<br/>Wire connection</li> <li>16 Countries - All male<br/>competitors</li> </ul>                            |  | Peter Friesen<br>(CE)<br>Andreas<br>Hochecker<br>(DCE)                                    |
| Bricklaying                          | 20                  | C2 – 9:30          | <ul> <li>Heavy level of Skill testing and design - 22 hours in total</li> <li>31 Male competitors</li> </ul>  | <ul> <li>3 Experts are previous gold medalist, also 3<br/>International Gold Medalist</li> <li>Theses 6 Expert Medalist will get together to<br/>talk about Worldskills and its impact on their<br/>lives (time to be confirmed).</li> </ul> | Troy Everett<br>(CE)<br>Roland<br>Matterdorfer –<br>Media<br>Coordinator<br>+436641846313 |
| Plastering and<br>Drywall<br>Systems | 21                  |                    | • The skill entails plastering flat<br>surfaces, installing drywall<br>systems, and creating<br>decorative mouldings on<br>projects from private homes to<br>historic houses. | • 16 countries participating this year.  | Leo Stillhard<br>(CE)<br>Rudolf<br>Mosching (DCE)   |



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| Painting and<br>Decorating | 22                  | C3 and C4<br>Skill Ends at 11:00 | <ul> <li>The painting and decorating professional is responsible for the external and internal appearance of a building and its protection from water, rust, mould, and insects.</li> <li>In the skill competition, the competitors need to use paint, decorative coatings, wallpaper, gilding, and sign writing, both indoors and outdoors in a wide variety of working environments.</li> </ul> |                 | Peter Walters<br>(SCM)<br>Michael Tobisch<br>(CE)<br>Bjorn Nilsson<br>(DCE) |



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| Mobile<br>Robotics | 23                  | The best time to visit each day<br>is ANYTIME in the afternoon.<br>There will be a continuous<br>'Live Action Robot Experience'<br>on NINE Side by Side<br>Performance Courts every<br>afternoon.<br>Skill Ends at 16:00 | <ul> <li>The Competition tasks the<br/>Robots and Competitors must<br/>jointly complete reflect the<br/>wide range of Mobile Robot<br/>Applications in use today:</li> <li>100% Autonomous<br/>Functionality Mode dealing<br/>with a Known in advance set of<br/>variables</li> <li>100% Autonomous<br/>Functionality Mode dealing<br/>with an UNKnown in advance<br/>set of variables</li> <li>A Tele-peration Robot Control<br/>Mode</li> </ul> | • Multiple former Competitors have returned to serve as their countries Mobile Robotics Expert.   | Bob Tone (SCM)<br>Vasco Vaz (CE)<br>Paulo Viliger<br>(DCE) |
| Cabinet<br>Making  | 24                  | C2 – 13:30 to 14:30  | <ul> <li>New technology being utilized<br/>in the form of Computer<br/>Numeric Control</li> </ul>   | <ul> <li>There is a speed test</li> <li>They are 30 competitors of which 3 are female.</li> <li>They are 3 new countries – Oman, Thailand and Iran</li> </ul> | Kasper<br>Bogelund (SCM)<br>Christian Notley<br>(CE)       |



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| Joinery   | 25                  | C1 – All competitors in the<br>same area 9:00<br>Any time is good for C2, C3<br>and C4   | <ul> <li>New Experts from Spain and<br/>Mongolia</li> <li>Instead a 2 modules,<br/>competitors now only have 1<br/>Module to complete</li> </ul>                                   | • They are 24 countries participating, India is now competing for the first time                     | Dion Lori (SCM)<br>Andrew<br>Pengelly (CE)                         |
| Carpentry | 26                  | C3: 10:00 onwards<br>Putting the roof on the<br>structures – would be visually<br>appealing.<br>C4: 10:00 onwards<br>Final touching in the<br>structures.<br>Skill Ends at 14:00 | • The skill entails working closely<br>with many other areas of the<br>construction industry,<br>measuring, cutting, and<br>installing wood components<br>both inside and outside. | • Try a Skill area next to the skill which begins<br>at 10:00 on C1 and at 9:00 on C2, C3 and<br>C4. | Pat Phillips<br>(SCM)<br>Adrian Wenger<br>(CE)<br>Allen Hill (DCE) |



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| Jewellery | 27                  | C3 – 16:00<br>C4 – 14:00 (Full assembly of<br>the pieces)<br>Skill Ends at 14:00 | <ul> <li>Darren May, the Skill<br/>Competition Manager is a<br/>WorldSkills Champion himself.<br/>He competed in 1991 from<br/>Australia and won a silver<br/>medal. He has been associated<br/>with WS since then.</li> <li>One of the most interesting<br/>skills – Jewellery plays with<br/>gold! Gold is a globally used<br/>metal. Additionally, all the<br/>work in the competition deals<br/>with hand work, thereby really<br/>testing the skills of the<br/>competitors.</li> </ul> | <ul> <li>For the first time, the jewellery piece has been created by external agent who would also be an assessor. 'Creativity' would also be tested for the first time which means the competitors would have a missing piece/ space and they have to create fill that space as innovatively as possible.</li> <li>16 countries participating this time. They would be the first generation of competitors who have the element of 'creativity' and haven't the entire test project.</li> <li>A young lady from Malaysia is also competing. Even though the country has invested very little on the skill, she is set to bloom.</li> </ul> | Darren May<br>(SCM)<br>Ragnvald Nore<br>(CE) |



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| Floristry    | 28                  | C1: Plants are conditioned<br>before 13:30, good time to<br>visit would be after 13:30<br>C2 – After 14:00<br>C3 - After 14:00<br>C4 - After 14:00<br>All arrangements will be<br>displayed for the audience to<br>see outside of the Florist Area                                     | • The test project is designed by an external designer.  | <ul> <li>They are 22 total competitors in total. It's<br/>great that there are 7 male competitors this<br/>year as this is considered as a female<br/>dominated field.</li> </ul>   | Hanne Heikkila<br>(SCM)<br>Andrew<br>Pengelly (CE)                             |
| Hairdressing | 29                  | <ul> <li>C2:</li> <li>Ladies Catwalk design for<br/>live models – 11:30 to<br/>12:30</li> <li>Ladies Long Hair up 14.00<br/>to 15:00</li> <li>C4: Competitors will be doing<br/>men's hairstyles. Best time to<br/>visit the competition area is<br/>between 10:30 to 11:30</li> </ul> | <ul> <li>The hairdresser works in diverse environments including large, medium, small, or mobile salons, client homes, product companies, and training institutions.</li> <li>They may specialize in a wide range of services, including cutting, colouring, styling, chemical reformation, and special hair treatments for men, women or both.</li> </ul> | <ul> <li>Competition will include Ladies Catwalk<br/>Design for live models along with Ladies<br/>long hair up for live models.</li> <li>The competition will also include men's<br/>traditional tapercut and beard design for<br/>live model.</li> </ul> | Katri Pokkinen<br>(SCM)<br>Donna De Maria<br>(CE)<br>Samantha<br>Kochhar (DCE) |



Beauty Therapy 30 C2:

- Facial Treatment: 9:00 to 13:15 and 14:00 to 18:15
- Spa Treatment: 9:00 to 13:15 and 14:00 to 18:15
- Hair Removal: 9:30 to 12:00 and 14:30 to 17:00

## C3:

- Facial Treatment: 12:00 to 16:15
- Spa Treatment: 9:30 to 13:45
- Nail Art: 9:00 to 17:00

## C4:

- o Modules: 10:00 to 12:00
- Make-up judge: 12:00 to 12:30
- Dance Show: 12:30
- Sustainability Awards: 13:30

- There will be a secret component to this Skill
- Four Areas are covered by this skill: Facials, Spa Treatment, Waxing, Nail Art and applying False Lashes.
- This skill is part of the sustainability practices

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Sue Simpson (SCM)

## 24 Competitors, 1 Male competitor from (CE) Hungary

• Many of the experts are past Competitors



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| Fashion<br>Technology | 31                  | C3: 16:30 – Major pieces<br>displayed<br>C4: Final Module at 9:15 – lots<br>of movement<br>Skill Ends at 10:45 | <ul> <li>The fashion technology practitioner designs and creates garments based on an understanding of aesthetics and a strong foundation of technical skills including design, pattern making, and use of specialized equipment for pattern making, cutting, and manufacture.</li> <li>The competitors need to work with fabrics, cut them, design them and create clothes.</li> </ul> | <ul> <li>1st time competing – Bangladesh, Croatia,<br/>Armenia and welcome back to Morocco</li> </ul> | Donna Drain<br>(CE) |



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| Patisserie and<br>Confectionery | 32                  | <ul> <li>C1: Sugar Presentation Piece which will be displayed from 13:15 and 17:45. Theme is Formula 1 Motor Racing.</li> <li>C2: 2-tier celebration cakes complete with models to depict the theme of Formula 1 Motor Racing to be displayed at 13:45 and the second group at 19:45</li> <li>C3: Same as C2 but different models</li> <li>C4: Has a complete set of mystery items to be prepared and presented by 11:45 and 15:45</li> <li>Skill Ends at 14:00</li> </ul> | <ul> <li>This skill is prominent in the current situation of world environment issues. We are trying to make a difference in sustainability as well as wastage and recycling.</li> <li>At this WorldSkills Competition in Kazan we will start the process by entering the initiative that WorldSkills have undertaken to increase sustainability practices during the Competition, to encourage Competitors to utilize their resources efficiently and produce less waste when completing their Module challenges by attributing marks to these processes.</li> </ul> | • 23 countries participating this year. | Yolande Stanley<br>(SCM)<br>Herve Boutin<br>(CE)<br>Cees Bakker<br>(DCE) |



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|--------------------------|---------------------|--|--|---|---|
| Automobile<br>Technology | 33                  | C1 to C4 – 9:00 am to 11:00<br>am  | • The skill has got more and<br>more challenging and<br>competitive through the years<br>with technology advancements<br>from across the globe.      | <ul> <li>36 countries are competing this year with 3 countries participating for the first time, namely Namibia, Egypt and Ghana.</li> <li>Though there are no female competitors this time, there is a female expert from Namibia. Interestingly, Namibia is competing for the first time in this skill category.</li> </ul> | Grant Petch –<br>SCM<br>Martin Restoule<br>– CE<br>Michael Elder -<br>DCE       |
| Cooking                  | 34                  | 2 shifts, main work starts at<br>10.00 and 15:00 because of<br>service times<br>Lunch: 13.00 and 14.00 | <ul> <li>Cooking will be done the whole<br/>day ending with service/<br/>presentation at the end of each<br/>morning and afternoon shift.</li> </ul> | • The skill with the maximum number of countries participating. The competitors would be divided in two groups with two shifts.   | Svein Magnus<br>Gjonvik (SCM)<br>Shaun Smith –<br>CE<br>Andreas Muller<br>- DCE |



| Skill                 | Skill<br>Num<br>ber | Key times to visit   | Highlights   | Unique Elements  | Skill Contact                                 |
|-----------------------|---------------------|--|--|--|---|
| Restaurant<br>Service | 35                  | C1: Skills test from 10:00 to<br>10:30 and 15:30 to 16:00<br>C1 Bar module: Fruit Carving<br>from 12:45 to 13:15<br>C1: Welcome cocktail from<br>11:45 to 12:15<br>Skill Ends at 19:00 | • The skill involves providing food and drink services to guests in hotels and restaurants, showing attentiveness and understanding their needs and expectations. Few essentials of this skill are – discipline, etiquette and communication skills. |  | Martin Erlache<br>Chief Expert                |
| Car Painting          | 36                  | In the morning or afternoon<br>between 9:00 and 10:00 or<br>14:00 and 15:00<br>Skill Ends at 18:30   | • There is a Russian connection<br>built into the project to be<br>released to Competitors during<br>the Competitions  | <ul> <li>The first competition to demonstrate sustainability as part of their test project.</li> <li>Though a male dominated, a number of women competitors are participating in this skill – from Sweden, Chinese Taipei, Australia, Canada, Switzerland, Germany and Finland.</li> </ul> | Rodney Bolton<br>(SCM)<br>Jens Hansen<br>(CE) |



| Skill                  | Skill<br>Num<br>ber | Key times to visit   | Highlights  | Unique Elements   | Skill Contact   |
|------------------------|---------------------|--|---|---|---|
| Landscape<br>Gardening | 37                  | Warm up activity C1 to<br>C4 – 9:00<br>C3 – 15:00 to 16:00<br>C4 – 12:00 | <ul> <li>A lot of elements are involved<br/>in the skill competition – stone,<br/>wood, steel, plants among<br/>other elements to create a<br/>masterpiece that can be<br/>witnessed at the end.</li> </ul> | • 24 countries participating this year out of which 3 countries are participating for the first time in this skill. | Simon Hugi –<br>Chief Expert<br>Luis Monti –<br>Expert (BR) |
|                        |                     | Skill Ends at 12:30  | <ul> <li>Various water fountains, secret<br/>elements, unique pieces can be<br/>witnessed at the competition<br/>area.</li> </ul>   |   | Vicole<br>Slagmolen –<br>Expert (NL)                        |



| Skill                                    | Skill<br>Num<br>ber | Key times to visit  | Highlights  | Unique Elements   | Skill Contact                                       |
|--|---------------------|---|---|---|---|
| Refrigeration<br>and Air<br>Conditioning | 38                  | <ul> <li>The most visually engaging activities are when the Competitors are:</li> <li>1. Cutting, bending or silver brazing the pipework</li> <li>2. Pressure testing the pipework</li> <li>3. Turning the power on the first time to see if the system operates.</li> <li>4. Commissioning the system and seeing ice being formed</li> <li>5. Fault finding systems</li> <li>Timing has to be confirmed.</li> <li>Skill Ends at 13:00</li> </ul> | <ul> <li>The main refrigeration project requires the installation and commissioning refrigeration system that makes ice in one tank by removing heat from water and transferring it into another tank to produce hot water. This is good for the environment as this heat recovery process is very efficient and saves energy.</li> <li>Refrigeration and air conditioning system pumps a fluid known as refrigerant, continuously through the system and its change of state from liquid to a vapour produce the cooling effect. The refrigerant is not consumed, just continuously pumped and the technician must ensure it does not escape from the system to the atmosphere.</li> </ul> | <ul> <li>The Expert for the United Arab Emirates is<br/>Roudha Bin Bahr, the first female expert in<br/>the skill, who was a competitor at the last<br/>competition in Abu Dhabi 2017.</li> <li>Chris MacDonald, the Australian<br/>Competitor at the Montreal 1999<br/>competition, who was then Australia's<br/>Expert in 2011, and Deputy Chief Expert in<br/>2013 and 2015. He is now the National<br/>Refrigeration &amp; HVAC Manager for Coles<br/>supermarkets in Australia.</li> <li>Mr Ching Sung Chuo, has been the Expert<br/>for Chinese Taipei at every competition<br/>since 2001, so this will be his 10th<br/>competition.</li> <li>Skill also has a Try a Skill area which begins<br/>at 8:30 on all days.</li> </ul> | Noel Munkman<br>(SCM)<br>Mohd. Zaki<br>Mohamed (CE) |



| Skill                                   | Skill<br>Num<br>ber | Key times to visit   | Highlights   | Unique Elements  | Skill Contact  |
|---|---------------------|--|--|--|--|
| IT Network<br>Systems<br>Administration | 39                  | <ul> <li>C4 – Morning to afternoon</li> <li>Two secret challenges</li> <li>one 2- hour<br/>troubleshooting challenge</li> <li>one 2-hour secret<br/>challenge to solve - will be<br/>done with a simulation<br/>software and with double-<br/>screens so one pointed<br/>outward against the<br/>visitors so everyone can<br/>see and compare the<br/>progress between the<br/>Competitors.</li> </ul> | <ul> <li>Incredibly powerful skill that<br/>underpins all organizations,<br/>banks, hospitals, educational<br/>institutions etc.</li> <li>"Competitors are the real<br/>experts" as they have no<br/>support during the competition<br/>and they really have to apply<br/>themselves to excel at the test<br/>project.</li> <li>Over time, the test project has<br/>got more and more challenging<br/>with the technological<br/>interventions.</li> </ul> | <ul> <li>Out of all the competitors, there is only female competitor – from Singapore.</li> <li>Two countries are participating for the first time – Oman and Egypt. Australia is participating after more than a decade.</li> </ul> | Anders Lantz -<br>SCM<br>Kravitz Hwang –<br>CE<br>Kevin Large -<br>DCE |



| Skill                        | Skill<br>Num<br>ber | Key times to visit   | Highlights  | Unique Elements   | Skill Contact              |
|------------------------------|---------------------|--|---|---|----------------------------|
| Graphic Design<br>Technology | 40                  | C2 – 15:00 to 17:00.<br>The competitors have to<br>design, print, glue together<br>packaging designs for<br>different products. Lot of<br>activity expected during the<br>day. The final products would<br>be displayed at the<br>competition area from 17:00<br>onwards.<br>Skill Ends at 18:30 | <ul> <li>One of the most interesting skills as the products of this skill are everywhere! Most of the experts are famous veterans from across the globe – leaders of the industry.</li> <li>35 countries participating. 5-6 countries are participating for the first time.</li> <li>Significant increase in the level of competition in terms of number of participants, level of the comOpetitors, technological interventions introduced.</li> </ul> | <ul> <li>Experts from France, Germany and<br/>Australia have together created a resource<br/>pool where the experts from across the<br/>countries share information, artwork,<br/>updates, tutorials etc.</li> <li>New machinery – large format printer - has<br/>been added this time for demo purpose.</li> <li>Another very interesting thing is that this<br/>time, each competitor has designed their<br/>own work station.</li> </ul> | Markus Ruben<br>Wiese (CE) |



| Skill                      | Skill<br>Num<br>ber | Key times to visit   | Highlights   | Unique Elements   | Skill Contact            |
|----------------------------|---------------------|--|--|---|--------------------------|
| Health and<br>Social Care  | 41                  | C1 – C4: 10:00 to 18:00 there<br>will always be some action<br>with actors ("patients") and<br>Competitors on "stage". | • There are 4 settings in health<br>and social care: hospital,<br>residential care, home care and<br>day care.   | • 19 competitors participating. China,<br>Croatia, India are competing for the first<br>time.   | Sabina<br>Decurtins.(CE) |
|                            |                     | Avoid going during lunchtime<br>between 12:00 to 14:00<br>Skill Ends at 17:30  | <ul> <li>Modules with actors in all kind<br/>of settings. Loudspeakers so<br/>the audience can hear what the<br/>Competitors discuss with the<br/>patients.</li> </ul> | • The winners have all gone through multiple regional and national level competition to reach WorldSkills International. Depicts the level of competitors and their dedication towards their passion. |                          |
| Construction<br>Metal Work | 42                  | C3 – 15:00   | <ul> <li>The broad range of skills that a<br/>construction metal utilizes,</li> </ul>  |   | Tim O'Halloran<br>(CE)   |
| Metal Work                 |                     | C4 – 10:00 or 30 minutes from the end of the competition   | from marking out, welding,<br>cutting forming and bending<br>while working to a tolerance of   |   | (02)                     |
|                            |                     | Skill Ends at 11:30  | +/-0.5mm   |   |                          |



| Skill                      | Skill<br>Num<br>ber | Key times to visit  | Highlights  | Unique Elements  | Skill Contact   |
|----------------------------|---------------------|---|---|--|---|
| Plastic Die<br>Engineering | 43                  | C2 - 15:15 onwards<br>C3 - 11:00 onwards<br>There are two modules in this<br>skill - manufacturing and<br>design. Both CNC machining<br>and design could be captured. | <ul> <li>Using injection moulding<br/>ensures the parts<br/>manufactured hardly require<br/>any work after the production.<br/>This is because the parts have<br/>more or less a finished<br/>appearance after they are<br/>ejected from the injection<br/>molds.</li> <li>Today, plastic injection<br/>moulding is an environment-<br/>friendly process. The scrap<br/>plastic generated during the<br/>production process is reground<br/>and re-used. Hence, the<br/>process generates very little<br/>waste.</li> </ul> | A memento depicting Tatarstan culture will<br>be moulded and given to visitors | Mallinathan<br>Puthukuddi<br>(SCM)<br>Dinor Martins<br>Junior (CE)<br>Ketian Li (ESR)<br>liketian@gdut.e<br>du.cn |



| Skill                   | Skill<br>Num<br>ber | Key times to visit  | Highlights  | Unique Elements   | Skill Contact   |
|-------------------------|---------------------|---|---|---|---|
| Visual<br>Merchandising | 44                  | <ul> <li>On C2, C3 and the morning of C4 there is the most activity.</li> <li>Modules:</li> <li>A: Research</li> <li>B: Design</li> <li>C: Moodboard, visual and rationale</li> <li>D: Health and safety, work and workspace organization</li> <li>E: Props and implementation</li> <li>F: Painting, covering and applying vinyl</li> <li>G: Productpresentation and styling</li> <li>H: Installing and finish window</li> <li>I: Appeal and client satisfaction</li> </ul> | <ul> <li>The skill is all about trends, but they are always chosen by Competitors, this is part of their skill.</li> <li>The most chosen trends are chosen to communicate with the target audience of the product - sustainability, social media, fashion, are common trends.</li> <li>Creativity, and knowledge of fashion, interior, art, and sales is essential in this skill, combined with technical skills, like painting, carpentry, graphic design, and craftwork.</li> </ul> | <ul> <li>The pieces and designs created by the competitors will be depicted at the individual stalls provided to them.</li> <li>In total, 15 competitors are participating this year with 4 males and 11 female competitors.</li> </ul> | Erika Scharff<br>(CE)<br>Leo, Tat Keung<br>Chan (DCE) |



| Skill                            | Skill<br>Num<br>ber | Key times to visit  | Highlights  | Unique Elements   | Skill Contact                                    |
|----------------------------------|---------------------|---|---|---|--|
| Prototype<br>Modelling           | 45                  | C2 – anytime during the day<br>C3 – 14:00 to 16:00<br>Skill Completed   | <ul> <li>The experts will share a product drawing and the competitors need to manufacture that product using the tools and machinery.</li> <li>The competitors are free to choose the process for creating the products.</li> </ul>   | • 12 countries are participating this year.<br>Croatia is one country participating for the<br>first time. Interestingly, there is one female<br>competitor from Japan and one female<br>expert from Croatia. | Bhasker Singh<br>(CE)<br>Sergey Kukolev<br>(DCE) |
| Concrete<br>Construction<br>Work | 46                  | From the second hour the<br>formwork grows very fast. On<br>C1 and C2 time-lapse would<br>be of interest.<br>C3 is concrete.<br>On C4, the work is visible. The<br>concrete surface is the result<br>of the quality of the formwork<br>work.<br>Skill Ends at 12:10 | <ul> <li>Very essential skill – the skilled professionals in this skill have to work with other skilled professionals from various other trades in the construction sector.</li> <li>Would be a visually appealing skill competition area as the competitors have to interpret designs and build in concrete both homes and commercial projects.</li> </ul> | <ul> <li>The winner of the bronze medal in WS<br/>Sao Paulo 2015 is now the Expert of<br/>Brazil.</li> </ul>  | Ilya Ershoc<br>(SCM)<br>Thomas Prigl<br>(CE)     |



| Skill  | Skill<br>Num<br>ber | Key times to visit                                     | Highlights   | Unique Elements   | Skill Contact           |
|--------|---------------------|--|--|---|-------------------------|
| Bakery | 47                  | During the day, all the competitors will be in action. | <ul> <li>The skill involves mixing<br/>and baking a wide range of</li> </ul> | <ul> <li>Try a Skill area with the skill area. Learn<br/>to bake the pies!</li> </ul> | Ashley Schmidt<br>(SCM) |
|        |                     | C4 – Will display the final<br>products.               | breads and pastries,<br>showing both skill,                                  |   | Julie Ivan (CE)         |
|        |                     | products.<br>Skill Ends at 16:00                       | attention to detail, and an<br>ability to work within fixed<br>timeframes.   |   | Natalie Falina<br>(DCE) |



| Industrial<br>Mechanic<br>Millwright | 48 | C1 – C4: 11:00 to 16:00<br>Skill Ends at 13:00 | <ul> <li>Referred as the "Doctors of<br/>Industry", very powerful skill<br/>today with the growth of<br/>machinery and massive<br/>diversity of elements.</li> <li>4 standalone modules: (two- 6<br/>hour Modules and two- 4 hour<br/>Modules)</li> <li>12 countries participating</li> <li>11 males and only 1 female competitor.<br/>She is from Chinese Taipei.</li> </ul> | Craig Brazil<br>(SCM)<br>Peter<br>Buttenshaw<br>(CE)<br>Bryce Arnold<br>(DCE) |
|--------------------------------------|----|--|---|---|
|                                      |    |  | <ul> <li>The Competitors will have two<br/>early starts and two late starts,<br/>but all will finish at the same<br/>time at the end of each<br/>competition day.</li> </ul>  |   |
|                                      |    |  | Module #1: Fabrication; Welding;<br>Machining; Precision Layout and<br>Mechanical Assembly Build.   |   |
|                                      |    |  | Module #2: Power Transmission<br>System Build.  |   |
|                                      |    |  | Module #3: Predictive<br>Maintenance and Laser Shaft<br>Alignment.  |   |
|                                      |    |  | Module #4: Fluid Power –<br>Pneumatics - Design – Build -<br>Troubleshoot.  |   |



| Skill                       | Skill<br>Num<br>ber | Key times to visit   | Highlights  | Unique Elements   | Skill Contact   |
|-----------------------------|---------------------|--|---|---|---|
| Heavy Vehicle<br>Technology | 49                  | C2, C3, C4 – 9:00 to 12:00 or<br>between 14:00 to 17:00  | <ul> <li>The skill involves repairing and maintaining large stationary and mobile machines and industrial equipment in environments that include transportation, mining, agriculture, and forestry.</li> <li>A lot of different, heavy machines are involved in this skill. The competitor has to train for months to learn the basics of the skill.</li> </ul> | <ul> <li>15 countries participating this year out of which 3 are participating for the first time 0 Korea, Netherlands and Hungary. USA is returning to the competition after 2015.</li> <li>The skill competition area is full of various machines – would be very interesting to capture the competitors testing their skills on them.</li> </ul> | Bobby Haraba<br>(SCM)<br>Werner<br>Seltenhammer<br>(Chief Expert) |
| 3D Digital<br>Game Art      | 50                  | C4 - Export to the Game<br>Engine (the best time to<br>capture photos and video)<br>C3 - Texturing in Substance<br>Every day towards the end of<br>the day when day's tasks are<br>being finished. | <ul> <li>The skill requires both<br/>excellent visual and technical<br/>skills as well as problem solving<br/>and creativity.</li> <li>During the course of the<br/>competition the Competitors<br/>will design and create 3D<br/>characters and environment<br/>for a digital video game and<br/>bring them alive using<br/>animation techniques.</li> </ul>   | • The skill started in 2017 and history is still<br>short. Though a fresh skill, there are<br>competitors from 12 countries participating<br>this year. Out of the 12, two are women<br>competitors.  | Mike Spence<br>Mikko Sallinen<br>JungYeon Kim                     |



| Skill                                | Skill<br>Num<br>ber | Key times to visit  | Highlights   | Unique Elements  | Skill Contact  |
|--------------------------------------|---------------------|---|--|--|--|
| Freight<br>Forwarding                | 51                  | C1 – Customer Meeting<br>13:10 to 16:35<br>C2 – Customer Polls<br>10:30 to 11:30 or 14:30 to<br>15:30 | <ul> <li>The competition involves<br/>arranging shipments from the<br/>producer to the final point of<br/>destination using different<br/>carriers and shipping methods.</li> <li>The skill competition is very<br/>close to the real world –<br/>applying those tools, creating<br/>that environment, the test<br/>projects.</li> <li>The WorldSkills Competition is<br/>very essential for this trade as<br/>it informs and motivates young<br/>people to come forward and<br/>explore this path of profession.</li> </ul> | <ul> <li>7 competitors participating this year. Brazil,<br/>Ireland and Germany are competing for the<br/>first time.</li> <li>Out of the 7, there is only one male<br/>competitor. He is from Germany.</li> </ul> | Elena Malyugina<br>(SCM)<br>Gabriela<br>Lugmayr (CE)     |
| Chemical<br>Laboratory<br>Technology | 52                  |   | • The laboratory chemical<br>analyst performs laboratory<br>analyses, tests, measurements<br>aimed at determining the<br>qualitative chemical<br>composition of a substance.   | • 9 countries are participating this year. Out of the 9, two of them are male competitors.   | Gerald<br>Hoglinger (CE)<br>Andrey<br>Yakovenko<br>(DCE) |



| Skill              | Skill<br>Num<br>ber | Key times to visit | Highlights   | Unique Elements   | Skill Contact  |
|--------------------|---------------------|--------------------|--|---|--|
| Cloud<br>Computing | 53                  | C1 – C4: Anytime   | <ul> <li>There exists a huge demand of cloud computing across the globe. Cloud computing is the "way of having computer resources on demand" – it is the system that supports Netflix, Dropbox, Spotify among others.</li> <li>Countries like Ireland, Australia are motivating women to join this skill.</li> <li>Skill competition includes 4 modules spread over the 4 days.</li> </ul> | <ul> <li>New skill introduced in WorldSkills<br/>International.</li> <li>16 countries participating this year with<br/>only 1 female competitor from Russia.</li> </ul> | Fernando Perez<br>Teller (Chief<br>Expert)<br>Jeffrey Nugent<br>(Deputy Chief<br>Expert) |



| N                 | Skill<br>Num<br>Der | Key times to visit  | Hi | ghlights  | ι | Inique Elements   | Skill Contact        |
|-------------------|---------------------|---|----|---|---|---|----------------------|
| Cyber Security 54 | .4                  | C3 or C4: 10:00 to 12:00<br>During C3 or C4, the<br>competitors will attempt<br>challenges in the Capture the<br>Flag (CTF). CTF presents<br>cybersecurity in an exciting<br>and engaging context to hone<br>their skills in simulated cyber<br>security attack scenarios.<br>During the competition, the<br>teams competed to take down<br>enemy servers, expose<br>vulnerabilities, and win flags<br>while defending their home<br>ground against enemy attacks.<br>Skill Ends at 15:00 | •  | In the world today, everyone<br>has a digital shadow – social<br>media accounts, bank details<br>etc. making it more important<br>than ever to have proper cyber<br>security in place.<br>All teams resided in the same<br>Cyber Range environment on<br>the same network with over<br>140 flags to capture and<br>defend<br>The dashboard will show real<br>time score of various teams as<br>they attempt to capture the<br>flags for both attack and<br>defence scenarios. | • | This is the first time that WorldSkills<br>International is hosting a skill competition<br>in cyber security.<br>Mostly seen as a male dominated trade<br>across the globe, it is amazing that two girls<br>are competing in the challenge. | Cesar Ibarra<br>(CE) |



| Skill               | Skill<br>Num<br>ber | Key times to visit  | Highlights   | Unique Elements   | Skill Contact             |
|---------------------|---------------------|---|--|---|---------------------------|
| Water<br>Technology | 55                  | C1 – C4: VR Test from 9:00 to<br>10:00<br>C1 – C4: Jar Test from 13:00 to | <ul> <li>Combines 3 elements –<br/>chemical, mechanical and<br/>automation process.</li> <li>Competitor needs to be</li> </ul> | <ul> <li>Try a Skill area for the general public.</li> <li>11 countries participating. All male competitors</li> </ul>            | Rodrigo<br>Zawadzki - SCM |
|                     |                     | 15:00   | efficient in all three to excel.   | competitors.  |                           |
|                     |                     | Skill Ends at 13:30   | <ul> <li>Festo, Adiro are the two<br/>industry partners supporting<br/>the skill.</li> </ul>                                   | <ul> <li>Last time, two women competed in Abu<br/>Dhabi which awed and inspired many in the<br/>country to learn more.</li> </ul> |                           |



| Skill              | Skill<br>Num<br>ber | Key times to visit   | Highlights  | Unique Elements   | Skill Contact                                       |
|--------------------|---------------------|--|---|---|---|
| Hotel<br>Reception | 56                  | Visit anytime. Will always<br>have some activity going on. | • Hotel Receptionist is key to<br>every hotel establishment. This<br>is where the primary<br>communication with the hotel<br>staff is established. The quality,<br>courtesy, and promptness of<br>service can make a great<br>difference with the hotel and<br>their satisfaction during their<br>stay. | <ul> <li>New skill introduced this year and it's amazing how 19 countries are participating this year with 16 of them competing.</li> <li>4 Reception tables have been set up – each of them have an individual theme. <ol> <li>Multi-cultural – deals with customers from different cultural, countries</li> <li>Disabled people – deals with people with special abilities (people on wheelchair, visually impaired etc.)</li> <li>Family – deals with parents, children</li> <li>VIP treatment – deals with people of high importance</li> </ol> </li> </ul> | Benjamin<br>Hallerud (CE)<br>Maria Ilinykh<br>(DCE) |