

## WorldSkills Calgary 2009 Competition Categories

### Transportation and Logistics

- 13 – Autobody Repair:** Autobody repairers restore body work damage, ranging from mechanical to cosmetic, mainly caused by road accidents.
- 33 – Automotive Technology:** Automotive technicians are able to understand the important functions of car systems and carry out troubleshooting, maintenance and repair work.
- 36 – Car Painting:** Car painters remove, mark out and replace vehicle body parts, prepare vehicle surfaces, treat the vehicle with protective chemicals, apply prime coats and remove rust.
- D1 – Aircraft Maintenance:** An aircraft maintenance technician inspects, services, troubleshoots, removes, installs and repairs aircraft systems.

### Construction and Building Technology

- 12 – Wall and Floor Tiling:** Consists of using tiling tools and equipment to install and fix floor and wall tiles, decorative tiling and tiling of pools and spas.
- 14 – Metal Roofing:** Roofers build and install roofs, walls, furring, guttering and roof safety structures at construction sites.
- 15 – Plumbing and Heating:** Plumbers install water, drainage and heating pipes for houses and industrial sites. Their tasks can include gas and compressed air pipe installations.
- 18 – Electrical Installations:** Electrical installers manufacture, maintain and repair electrical equipment for houses, industrial sites and power stations.
- 19 – Industrial Control:** Industrial controllers install conduits, cables, devices, instruments, automated devices and control centre fittings quickly and safely.
- 20 – Bricklaying:** Bricklayers work on commercial and residential projects where they cut and lay brick, stone, glass block or terra cotta to build walls, fireplaces, chimneys and other structures.
- 21 – Stonemasonry:** The art of crafting stone. Buildings, structures and sculptures are all constructed by stonemasons.
- 22 – Painting and Decorating:** Involves preparing surfaces, selecting paints and colours, brushing, rolling or spraying paints and applying decorative finishes.
- 24 – Cabinetmaking:** A cabinetmaker works with wood to produce furniture, cabinetry and architectural millwork from a variety of natural and manufactured materials.
- 26 – Carpentry:** Carpenters have expertise in a wide variety of skills that are needed in commercial construction as well as in residential building and structural maintenance.
- 25 – Joinery:** The process of connecting or joining two pieces of wood together through the use of various forms of wood joints.
- 37 – Landscape Gardening:** Landscape gardeners design, develop and apply landscape plans, haul and spread topsoil, care for plants, mow, water, fertilize and trim.
- 38 – Refrigeration:** Refrigeration technicians install components which form the refrigeration system. When your air conditioning stops working, these are the professionals you call.
- D03 – Plastering and Drywall Systems:** consists of the development and the decoration of buildings by the processing of elements and materials essentially containing plaster.

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The 40th WorldSkills Competition is coming to Calgary, Alberta, Canada from September 1 – 7, 2009. The organizing committee, WorldSkills Calgary 2009, is leading the event coordination with support from WorldSkills International, Skills/Compétences Canada, and Skills Canada Alberta.

### Information and Communication Technology

**2 – Information Network Cabling:** Information Network Cabling consists of the designing, installing and testing of telecommunication networks.

**9 – IT/Software Applications:** Involves various uses of Microsoft Office software (or similar) and graphic programs.

**11 – Offset Printing:** Offset printers are able to fit printing plates or cylinders on presses, mix the inks that go on them and adjust the colour flow to the image.

**17 – Web Design:** Web designers use computer programs to produce web pages that include links to other pages, graphic elements, text and photographs.

**39 – IT/PC Network Support:** Consists of assembling personal computers (PCs) with accessories and network devices for home and business environments.

### Manufacturing and Engineering Technology

**1 – Polymechanics/Automation:** Covers a broad range of activities within manufacturing, assembly, maintenance and technical control systems.

**3 – Manufacturing Team Challenge:** Involves designing and manufacturing equipment assemblies using a variety of skills, including draft and computerized design.

**4 – Mechatronics:** Technicians build, maintain, repair and program equipment control systems for the automation industry.

**5 – Mechanical Engineering Design – CAD:** Covers the use of computer-aided design (CAD) technology to produce documentation in manufacturing, including product drawings, paperwork and 3D models.

**6 – CNC Turning:** A process used to produce cylindrical components through metal cutting using computer numerically controlled (CNC) lathes.

**7 – CNC Milling:** Involves cutting metal materials with computer numerically controlled (CNC) milling machines.

**8 – Mould Making:** Produces plastic parts ranging from mobile phone covers and TV remotes, to bottles and toys.

**10 – Welding:** Involves the fusing and separation of materials using a variety of processes.

**16 – Electronics:** Involves manufacturing, testing and troubleshooting electronic equipment.

**23 – Mobile Robotics:** A team competition that requires competitors to assemble, set-up, manage and maintain mechanical systems within a mobile robot.

**HM01 – Sheet Metal Technology:** Sheet metal technologists fabricate and install a wide variety of construction-related items using sheet metal or plastic material components.

**D02 – Construction Metal Works:** Covers the construction of steel structures, their assembly and formation, maintenance and repair and general steel fabrications.

### Creative Arts and Fashion

**27 – Jewellery:** Jewellers create beautiful and durable jewellery out of precious metals for a variety of customers.

**28 – Floristry:** The art of creating bouquets and compositions from flowers, foliage, ornamental grasses and other botanical materials.

**31 – Fashion Technology:** Fashion designers develop and create new clothing and accessory designs, as well as analyze fashion trends, choose the colours and fabrics and work closely with production, marketing and sales departments.

**40 – Graphic Design Technology:** Graphic designers research and manage virtual design projects, with a primary focus on electronic media.

### Social and Personal Services

**29 – Ladies'/Men's Hairdressing:** Hairdressers must demonstrate the correct cutting techniques, curling, colouring and barbering with creativity, imagination and technical ability.

**30 – Beauty Therapy:** A beauty therapist is a specialist in skin care, skin care advice, massage and makeup.

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- 32 – Confectioner/Pastry Cook:** Confectioners and pastry cooks create delicious products for all kinds of events, needing artistic flair and talent.
- 34 – Cooking:** A cook is trained to manage commercial kitchens, plan menus and prepare appealing and nutritious meals according to health and safety regulations.
- 35 – Restaurant Service:** Professional restaurant servers are skilled in serving food and drinks, mixing international drinks and working behind the bar.
- 41 – Caring:** Caring is a team competition that covers a broad range of abilities and activities dealing with social care, nursing and rehabilitation.

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