



world **skills**™  
Calgary 2009 

September 1-7



Live the skilled life



TUG & TESS  
WELCOME YOU TO THE  
40<sup>th</sup> WorldSkills Competition

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## Welcome to the 40<sup>th</sup> WorldSkills Competition!

This book is provided to all participating schools of the One School, One Country program.

More than 150 elementary and middle schools in Calgary are twinned with one of the 51 WorldSkills Members who are sending Competitors to WorldSkills Calgary 2009.

Participating students have the opportunity to study the culture, language, history and background of their twinned country/region.

Contact between each school and their country/region has been made through email, letters, exchange of photos and the like.

This WSC2009 activity book will help students understand the Competition and learn about each individual competition area.

On September 1<sup>st</sup>, 2009, just prior to the Opening Ceremony, each team will visit one or two schools and will be welcomed, encouraged and supported by the school students at an assembly. A formal ceremony, an exchange of gifts, entertainment from the host school and the singing of national anthems are just some of the activities that are possible during the visit.

We, at WorldSkills Calgary 2009, encourage all students to visit the Competition, keep track of their twinned country/region's Competitors and enjoy the opportunity to explore the entire spectrum of career opportunities.



## Special Thanks

**Tug and Tess photos and studio space provided by SAIT Polytechnic:**

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Thank you  
to everyone who contributed to  
the making of this book.

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WorldSkills Calgary 2009 Ltd.

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Debra Stark



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[www.worldskills2009education.com](http://www.worldskills2009education.com)

THE WORLD IS COMING  
SEPTEMBER 1



Presented by

ENCANA

ONE SCHOOL,  
ONE COUNTRY

YOUR GUIDE TO THE  
40<sup>th</sup> WorldSkills Competition

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## What is the WorldSkills Competition?

Competing at a WorldSkills Competition is a source of great pride and honour for Competitors and Members.

WorldSkills Competitions encourage personal development and achievement in all Competitors. WorldSkills Competitions are pivotal points for all Competitors' professional growth in their chosen career. At the national level, skills competitions encourage continual improvement in each country's educational training programs. This is accomplished through the ability of WorldSkills Members and Competitors to benchmark their performance against all other Members and international standards of excellence.

## History

In 1946, there was a great need for skilled workers in Spain. Mr. José Antonio Elola Olaso believed a competition would arouse enthusiasm among the youth, adults and spectators alike, leading to an increase in vocational training enrollment.

The first International Skills Competition was held in Madrid, Spain in 1950, under the International Vocational Training Organisation (IVTO).

In 1999, the IVTO changed its name to "WorldSkills International" in order to begin changing perceptions surrounding apprenticeships, trades and vocational training.

Over its 59 year history, the WorldSkills Competition has come to symbolize the pinnacle of excellence in skilled trades and technology competitions.

Every two years, hundreds of young skilled people, accompanied by their teachers and trainers, gather from around the world to compete before the public in the skills of their various trades and test themselves against demanding international standards. They represent the best of their peers drawn from regional and national skill competitions held (currently) in 51 countries/regions.

## WorldSkills International (WSI)

WorldSkills International's mission is to promote, through the cooperative actions of Members, a worldwide awareness of the essential contribution that skills and high standards of competence make to the achievement of economic success and individual fulfillment.

The WorldSkills Competition is built on the pillars of integrity, transparency, fairness, partnership and innovation. WSI strives to ensure that the skills at the Competitions reflect their mission, the Competition goals and are representative of the skill needs of the global economy.

The execution of a WorldSkills Competition is awarded to a Member by WSI, through a bidding process where the General Assembly votes for the countries interested in hosting the event.

As of 2009, there are 51 WSI Members.

To find out more: [www.worldskills.org](http://www.worldskills.org)



### The WorldSkills Logo

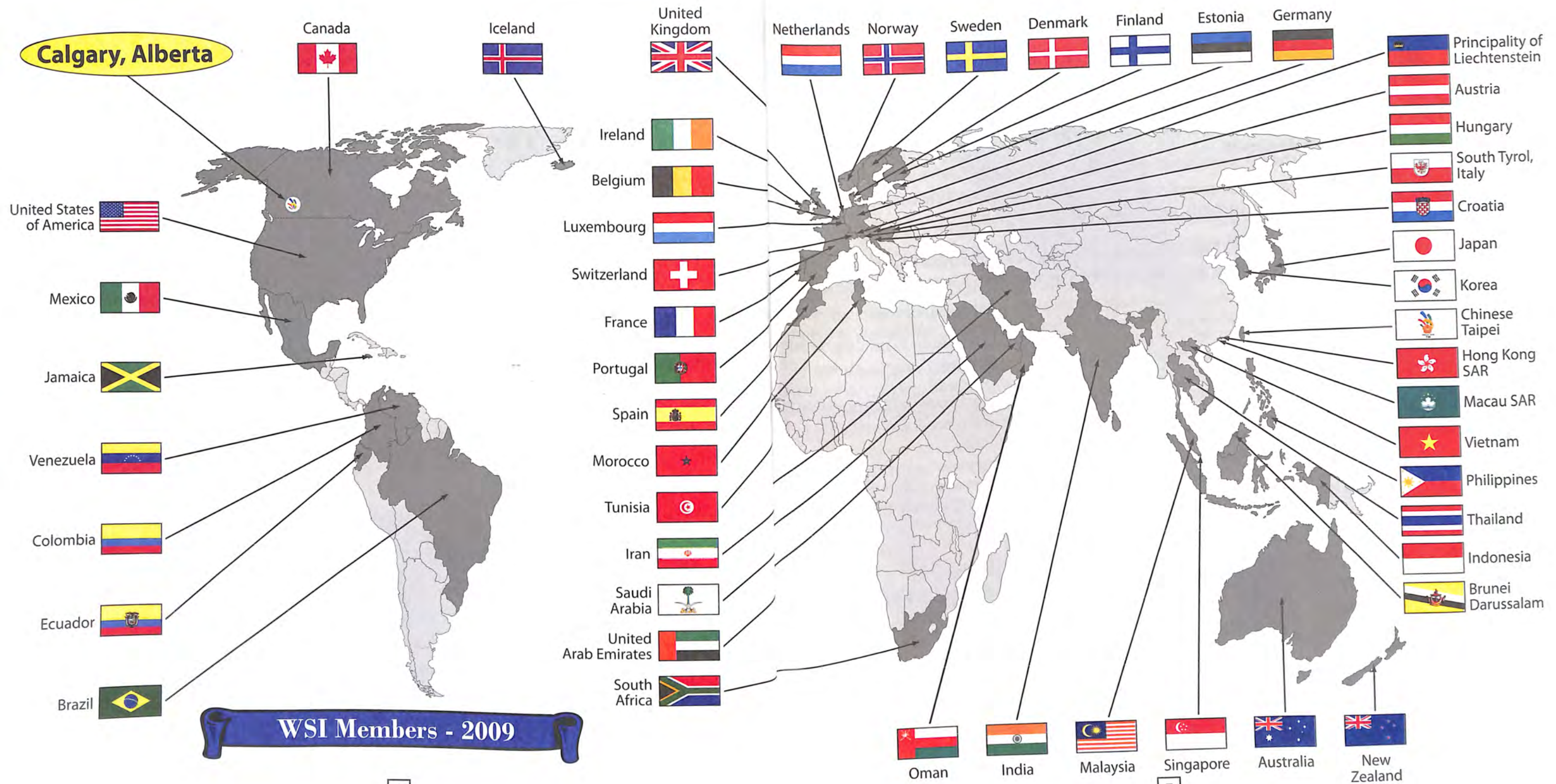
The design shows a hand, as expressed by five strong lines of colour, representing the youth of all countries reaching out for new skills.

The WorldSkills logo was designed by Teaho Yang, a graphic design student at Mokwon University in Korea.

The logotype was designed to complement the hand symbol and was created by Kathrin Baldo and Andreas Alber of South Tyrol, Italy.

| ISO Country Code | Country / Region     | Year Joined WSI |
|------------------|----------------------|-----------------|
| AE               | United Arab Emirates | 1997            |
| AT               | Austria              | 1981            |
| AU               | Australia            | 1958            |
| BE               | Belgium              | 1998            |
| BN               | Brunei Darussalam    | 2004            |
| BR               | Brazil               | 1981            |
| CA               | Canada               | 1990            |
| CH               | Switzerland          | 1953            |
| CO               | Colombia             | 2008            |
| DE               | Germany              | 1953            |
| DK               | Denmark              | 1998            |
| EC               | Ecuador              | 2006            |
| EE               | Estonia              | 2007            |
| ES               | Spain                | 2005            |
| FI               | Finland              | 1988            |
| FR               | France               | 1953            |
| HK               | Hong Kong SAR        | 1997            |
| HR               | Croatia              | 2006            |
| HU               | Hungary              | 2006            |
| ID               | Indonesia            | 2004            |
| IE               | Ireland              | 1956            |
| IN               | India                | 2007            |
| IR               | Iran                 | 2000            |
| IS               | Iceland              | 2007            |
| IT               | South Tyrol, Italy   | 1995            |

| ISO Country Code | Country / Region              | Year Joined WSI |
|------------------|-------------------------------|-----------------|
| JM               | Jamaica                       | 2004            |
| JP               | Japan                         | 1961            |
| KR               | Korea                         | 1966            |
| LI               | Principality of Liechtenstein | 1968            |
| LU               | Luxembourg                    | 1957            |
| MA               | Morocco                       | 1998            |
| MO               | Macau SAR                     | 1983            |
| MX               | Mexico                        | 2006            |
| MY               | Malaysia                      | 1992            |
| NL               | Netherlands                   | 1962            |
| NO               | Norway                        | 1990            |
| NZ               | New Zealand                   | 1985            |
| OM               | Oman                          | 2009            |
| PH               | Philippines                   | 1994            |
| PT               | Portugal                      | 1950            |
| SA               | Saudi Arabia                  | 2001            |
| SE               | Sweden                        | 1994            |
| SG               | Singapore                     | 1993            |
| TH               | Thailand                      | 1993            |
| TN               | Tunisia                       | 1996            |
| TW               | Chinese Taipei                | 1970            |
| UK               | United Kingdom                | 1953            |
| US               | United States of America      | 1973            |
| VE               | Venezuela                     | 2002            |
| VN               | Vietnam                       | 2006            |
| ZA               | South Africa                  | 1990            |



## Skills/Compétences Canada (S/CC)

Skills/Compétences Canada is the Canadian Member Organization to WSI. As a national, not-for-profit organization, S/CC works with employers, educators, labour groups and governments to promote skilled trades and technology careers among Canadian youth.

Through regional, provincial, national and international skills competitions, S/CC helps to make skilled trade and technology careers more visible to teachers, students, parents and the general public.

Skills Canada Alberta hosts an annual Provincial Skills Competition for over 600 high school and post-secondary students competing in 40 events. Top performers at Provincials earn a spot on Team Alberta and compete at the annual Canadian Skills Competition.

Every two years, competitors selected from the national Canadian Skills Competition form Team Canada and compete against the best in the world at the WorldSkills Competition.

The 38 members of 2009 Team Canada reached the national level by first competing at provincial / territorial skills competitions and then contending at the Canadian Skills Competition. The selection process was made after the 2008 Canadian Skills Competition, which took place in Calgary on May 26-27, 2008.

At the last WorldSkills Competition (2007 - Shizuoka, Japan), Canada won medals in Welding (gold), Cooking (gold), Electrical Installation (silver), Web Design (silver), Confectioner/Pastry Cook (bronze), Fashion Technology (bronze), as well as eight Medallions for Excellence.

For more information, please visit:

[www.skillscanada.com](http://www.skillscanada.com)

or

[www.skillsalberta.com](http://www.skillsalberta.com)



## WorldSkills Calgary 2009 (WSC2009)

WorldSkills Calgary 2009 is part of a global movement to develop, recognize and inspire young people in the skilled professions.

In May 2004, at the WorldSkills General Assembly in Hong Kong, Canada officially won the right to host the 40<sup>th</sup> WorldSkills Competition.

WorldSkills Calgary 2009 Ltd. is a not-for-profit organization established to plan and host the 40<sup>th</sup> WorldSkills Competition in September 2009 on behalf of WorldSkills International.

In September 2009, 900 Competitors drawn from 51 WSI Member countries/regions will compete over four days to test themselves against high international standards and more importantly, each other. Each Competitor coming to WorldSkills Calgary 2009 strives to prove they are the world's best.

The 40<sup>th</sup> WorldSkills Competition sets world class competency standards in 45 skill categories ranging from welding to cooking, autobody repair to landscape gardening and plumbing to web design. In other words, the skilled professions aren't just about hammers and wrenches anymore.

From September 1 to 7, over 150,000 spectators including students, parents, policy makers, media, employers, teachers, trainers and experts from around the world will experience WSC2009.

"WorldSkills is a powerful means for building a global skills respect culture. It enables the best of the world's young skilled people to motivate and inspire successive generations to see that vocational skills lead to secure and fulfilling lives in a fast changing, competitive world." (Jack Dusseldorp, President of WSI)

**Power. Passion. Precision. Craftsmanship. Camaraderie. Competition!**  
These six words represent the thrill, excitement and spirit of WorldSkills Calgary 2009.

**Live the skilled life.**



WSC2009's mission is to engage the passion of our youth to pursue satisfying trades and technology career pathways that result in a motivated and highly skilled workforce.

# Safety YOUR MOST IMPORTANT ACTIVITY AT WORK!



Work areas and work routines must be designed for maximum safety. Your body is NOT made to tolerate many of the hazards found in workplace operations. Take protection seriously in your workplace!

There are many different styles, colours and types of safety signs that you will see on the job. No matter what the sign looks like – **PAY ATTENTION AND ALWAYS FOLLOW THE DIRECTIONS!**

There is no one piece of safety equipment that applies to all workplace activities. Using or wearing the wrong safety equipment for the wrong job may result in serious injury or even death.

If you do not know what a sign means – **ASK!** Serious injuries can last your whole life.

Safe workplaces and safe work practices are the best guarantee against injuries.

When it comes to personal safety, your final line of defense is your **personal protective equipment (PPE)**.

- Your PPE must be worn properly for it to work.
- Always wear the right PPE for the job.
- Always take good care of your PPE.
- Replace your PPE whenever required by the manufacturer and whenever it becomes damaged.

## Samples of PPE Symbols



Different styles of SAFETY HARNESS REQUIRED signs



FACE SHIELD REQUIRED



RESPIRATOR REQUIRED



WELDING MASK REQUIRED



BODY PROTECTION REQUIRED



PERSONAL FLOTATION DEVICE (PFD) OR LIFEJACKET REQUIRED



HEARING PROTECTION REQUIRED

For the PPE activities in this book, we have grouped the various types of safety concerns into eight categories that apply to our skill competitions.



circle all that apply

1. Head protection – includes hard hats, hats for sun or insect protection, hair nets, etc.
2. Eye protection – includes protective glasses, goggles, face shields, specialty masks like welding helmets, etc.
3. Breathing protection – includes dust masks, canister masks, self-contained breathing apparatus, etc.
4. Hearing protection – includes ear plugs, ear muffs, etc. (but NOT headphones or pieces of cotton!)
5. Body protection – includes kneepads, back support, coveralls, lab coats, aprons, rain gear, PFDs, cold and heat protection, chemical and biological protection, flame resistant clothing, sunscreen, insect repellent, etc.
6. Hand protection – includes wrist protectors, cloth, leather, metal mesh, rubber, plastic, padded and insulated gloves, finger shields, tapes, barrier creams, etc.
7. Foot protection – includes steel-toed boots or shoes, rubber boots, etc.
8. Tool awareness – includes being aware of potential dangers, handling tools in safely and in the manner intended, ensuring protective guards are in place, removing loose objects like rings and necklaces, tying back loose clothing and hair, etc.

\* Remember that on the job, there are additional safety concerns like:

- Slip, trip & fall protection
- Ergonomics
- WHMIS
- Confined spaces
- Many others depending on your specific job and worksite location
- Power lines
- Clean and orderly work spaces
- Violence in the workplace

For each skill  
Tug and I are participating in,  
please circle all of the PPE that we should  
be wearing. The answers can be found  
on our website. Just find  
Tug and me!



# SKILL COMPETITIONS

BY  
NAME

## COMPETITION SECTORS

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## Information & Communication Technology

Sector:

Information & Communication Technology covers all the skilled areas that are related to information services. This includes everything from network creation and maintenance to development and finishing technologies. Among many other things, people with these skills enable you to use the Internet, allow everyone's computers to talk to each other and provide magazines and catalogues for you to enjoy.

The 5 competition areas included in this sector are: Information Network Cabling, IT/Software Applications, IT PC/Network Support, Offset Printing and Web Design.



Information  
Network  
Cabling  
IT Software  
Applications  
IT PC Network  
Support  
Offset  
Printing  
Web  
Design

A T D B W D J O N S W I U P P  
P  
V Z R E D I B E W W O A P  
F A C D G R N O N O P I P  
O E A S O L Y S E F P T L  
H R B U J E V A T F X P I  
N A L P G O B F F S S C C  
D W I P N N G I S E D N A  
T T N O I W C I W T O E T  
C F G R T O K U N F X T I  
O O L T N R B M Q J E W O  
P S R E I O U P E D V O N  
S T T K R O W T E N H R S  
T I E H P W A S D H T K F  
I  
Q S I N F O R M A T I O N E Z  
W R A  
K O D  
S I L D Q



Skill #02:

# INFORMATION NETWORK CABLING

Information Network Cabling consists of the designing, installing and testing of telecommunication networks. This work involves creating optical fibre and local area network connections, as well as the construction of a cable television network. Professionals with these skills enable your computers to share files and allow you to surf the Internet and watch your favourite television shows.

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:

Skill #09:

# IT/SOFTWARE APPLICATIONS

IT/Software Applications involves various uses of Microsoft Office software (or similar) and graphic programs. This event requires a broad range of skills and knowledge in programming and software development, as well as the ability to produce documents with accuracy, correct formatting, Macros and field captions. These skills allow you to be productive at home and at school, while working with video, word processing, databases, spreadsheets and presentation graphics.

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:

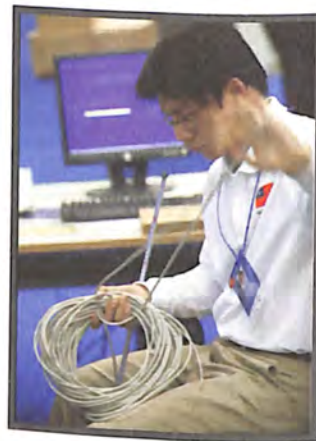
# IT PC/NETWORK SUPPORT

IT PC/Network Support consists of assembling personal computers (PCs) with accessories and network devices for home and business environments. People in this career install and configure wireless network devices, configure switches, routers and data protection devices and implement business IT systems and server software. In other words, they troubleshoot problems you may have with your new computer, scanner and printer.

*What PPE should I be wearing for this event?*



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

# OFFSET PRINTING

A printer is involved in setting up and operating letterpress, lithographic, flexographic and gravure printing presses and can also carry out minor repairs and routine maintenance. 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. This book was printed by an offset printer.



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

# Skill #17: WEB DESIGN

Web designers use computer programs to produce web pages that include links to other pages, graphic elements, text and photographs. Web designers are able to work with a content management system (CMS) to modify and update web sites. Web designers create and update new information on your favourite web site.

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

# Sector: Manufacturing & Engineering Technology

Manufacturing & Engineering Technology covers all the skilled areas that are related to industrial development and creation. This includes everything required for the design, creation, making and maintaining of anything involving electronics and machines. People in these skills create all of the pieces and then assemble the parts into a finished whole. Without them, you would have chunks of metal and plastic, instead of an XBOX 360.

The 12 competition areas included in this sector are: CNC Milling, CNC Turning, Construction Metal Works, Electronics, Manufacturing Team Challenge, Mechanical Engineering Design - CAD, Mechatronics, Mobile Robotics, Mould Making, Polymechanics/Automation, Sheet Metal Technology and Welding.



Please try my word search!

|                              |                                                           |             |
|------------------------------|-----------------------------------------------------------|-------------|
| Manufacturing                | C C A S C I N G I S E D                                   | L A C A D T |
| Engineering                  | N D V A O R C V                                           | F W E H     |
| Technology                   | C U X X O D Q J W                                         | P M         |
| CNC Milling                  | T K I S K R O W Z                                         | C P Y O     |
| CNC Turning                  | U I D I W H Y M Q                                         | I T L B     |
| Construction                 | R Q M R S M K V Q I L A T E M T E E H S I X V N           |             |
| Metal                        | N Y Z G H S C I N O R T C E L E A Z S Z L M B R A F       |             |
| Works                        | I N Y O E N G I N E E R I N G J M T W Y E E Z E P Y       |             |
| Electronics                  | N E M M Z Z M J C O N S T R U C T I O N R C K E M I       |             |
| Mechatronics                 | G P O L Y M E C H A N I C S F W W A V E O H H N K J       |             |
| Manufacturing Team Challenge | M C C N C M I L L I N G X F Z N C J X J B A J I G         |             |
|                              | L F M O U L D M A K I N G I G F Q Z M W O N F G O         |             |
|                              | R V D R G H D I R U R A F W B G U Z U F T I S N P         |             |
|                              | T E C H N O L O G Y N O I T A M O T U A I C N E V L       |             |
|                              | F Y K Z J C H A L L E N G E G N I R U T C A F U N A M     |             |
|                              | D W E L D I N G M E C H A T R O N I C S S L Y D T T K Z   |             |
|                              | F Y G O L O N H C E T E G N I R U T C A F U N A M E S C V |             |
|                              | V T N G M M O Q I D O N M Y A A L Y F M                   |             |
|                              | D Q P Z Z U Q P X J Z K                                   |             |

Mechanical  
Engineer  
Design  
CAD  
Mobile Robotics  
Mould Making  
Polymechanics  
Automation  
Sheet  
Metal  
Technology  
Welding

## Skill #07: CNC MILLING

CNC Milling involves cutting metal materials with computer numerically controlled (CNC) milling machines. CNC milling machines read instructions that operate and drive the powered mechanical device. This machine tool is used to make components by removing material a little bit at a time. The increased use of CNC machining has allowed considerable improvements in consistency and quality to be achieved. Now you know that the first item you purchase will be exactly the same as the next.



What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

## Skill #06: CNC TURNING

CNC Turning is a process used to produce cylindrical components through metal cutting using computer numerically controlled (CNC) lathes. From a technical drawing, the machinist must code the software controlled machine and then set the needed cutting tools to make the desired customer part. Programming of the CNC lathe takes place through a control unit and computer-aided manufacturing (CAM) software. These people can create custom parts for the chopper you are building in your garage.



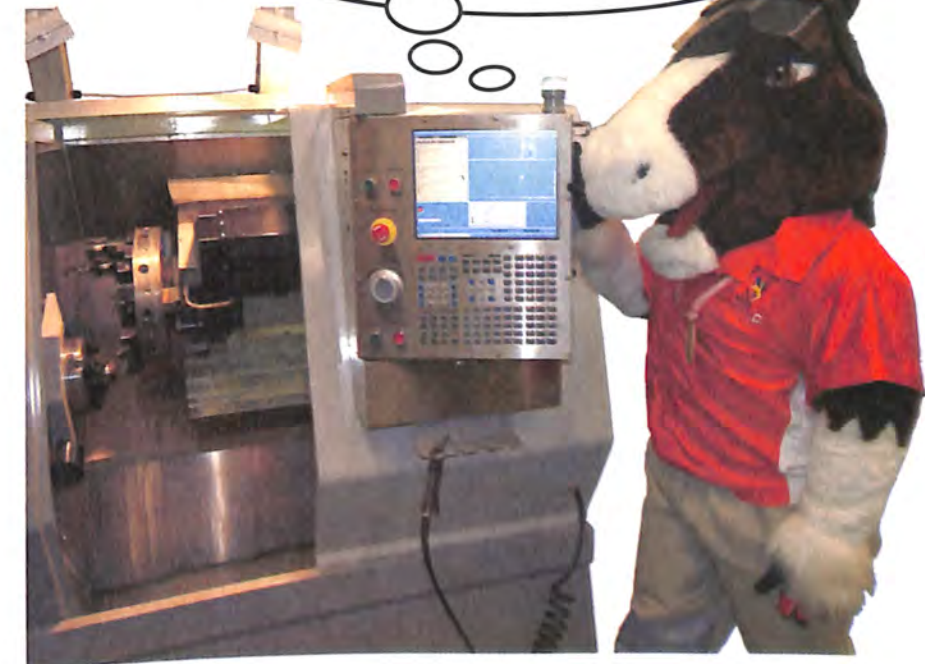
What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:



Skill #D02:

# CONSTRUCTION METAL WORKS

Construction Metal Works covers the construction of steel structures, their assembly and formation, maintenance and repair and general steel fabrications. Construction metal workers study and interpret drawings, cut and assemble metal sections and perform checks on the items they produce. These professionals build downtown skyscrapers, cruise ships and the machine shop on your farm.

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



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September 1-7

Skill #16:

# ELECTRONICS

Electronics involves manufacturing, testing and troubleshooting electronic equipment. Skilled technicians are able to build systems for electronics and other special applications. Since the manufacturing processes of modern mass-produced electronics are highly automated, technicians build prototypes before production, as well as maintain and repair systems. These are the people you take your television to for repairs. They are also the people who created the very first XBOX.

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:

worldskills  
Calgary2009  
September 1-7



Skill #03:

# MANUFACTURING TEAM CHALLENGE

Manufacturing Team Challenge involves designing and manufacturing equipment assemblies, using a variety of skills including draft and computerized design, as well as applying manufacturing skills such as manual and computer-aided machining, welding, installing and assembling, automation and electronics. Manufacturing Team Challenge is a team event with three members who will each design and build individual equipment assemblies to produce a complete final product.

What PPE should we be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

Skill #05:

# MECHANICAL ENGINEERING DESIGN - CAD

Mechanical Engineering Design - CAD covers the use of computer-aided design (CAD) technology to produce documentation in manufacturing, including product drawings, paperwork and 3-D models. CAD enables drafters to easily modify plans at the design stage and to produce accurate models of the product. CAD designers are expected to draw designs accurately and thoroughly. Every new toy starts out as a CAD drawing before it is put into production.



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

What PPE should I be wearing for this event?

worldskills  
Calgary2009  
September 1-7



Skill #04:

# MECHATRONICS

Mechatronics technicians build, maintain, repair and program equipment control systems for the automation industry. This team event combines skills in mechanics, pneumatics, electronically controlled systems, programming, robotics and system development. Mechatronics professionals install, set-up, repair and adjust machine components and manage equipment control systems, including programming. This skill allows automation of activities carried out in all of the other trades.



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

Skill #23:

# MOBILE ROBOTICS

Mobile Robotics is a team competition that requires Competitors to assemble, set-up, manage and maintain mechanical systems within a mobile robot. Technicians must also be able to carry out mobile robot system design, assemble a mobile robot according to manufacturer's documentation, connect a mobile robot to its control system and interpret manufacturer's technical documents. Professionals in this career install and keep the welding robot machines on Ford's automobile assembly line working.



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

What PPE should we be wearing for this event?



Skill #08:

# MOULD MAKING

A mould maker produces plastic parts ranging from mobile phone covers and TV remotes, to bottles and toys. From a drawing or a sketch, the mould maker designs and fabricates metal moulds which will produce the plastic parts. Mould Making conducts "rapid tooling", which delivers functional plastic parts to the research and development department so that they can conduct function and durability tests on a new product. WSC2009 yo-yos were made using plastic injection moulding.

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

Skill #01:

# POLYMECHANICS/AUTOMATION

Polymechanics/Automation covers a broad range of activities within manufacturing, assembly, maintenance and technical control systems. Polymechanics technicians use machine tools that can produce and install parts for production machinery and equipment. They carry out technical repair and maintenance work in production plants. This category requires skills in logic and automation control and the related basic electrical and circuitry work. These technicians keep the assembly lines running in the plants that make your favourite breakfast cereal.

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

# Skill #HM01: SHEET METAL TECHNOLOGY

Sheet metal technologists fabricate and install a wide variety of construction related items using sheet metal and plastic material components. Workers in this field produce complex 2-D and 3-D items for the food/beverage, transport, pharmaceutical, construction and general engineering industries. Technicians work with a variety of precision measuring tools to manipulate conditions such as air flow pressures in duct systems. A sheet metal technologist created the metal ducts that connect to the furnace and provide heat to keep your home warm.

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

# Skill #10: WELDING

Welding involves the fusing and separation of metals using a variety of processes. Manual welding is controlled entirely by the welder, while semi-manual welding uses machines to perform some of the tasks. Welders plan their work from drawings and blueprints. They use hand tools and machines to assist in the fabrication, assembly and welding of their products. Welders created the metal staircase and railing leading into your hockey rink.



circle all that apply

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:



# Sector: Creative Arts & Fashion

Creative Arts & Fashion covers all the skilled areas that are related to fine arts and fashion design and creation. This includes everything from multi-media creative to interior decoration and fashion. These are the skills that keep us all looking our best!

The 4 competition areas included in this sector are: Fashion Technology, Floristry, Graphic Design Technology and Jewellery.

please try my word search!

M A S W E S  
E V I T A E R C  
D W M A L C  
B N L P  
V Z O K  
C X A G H J  
S F L O R I S T R Y S Y P G  
D F T E C H N O L O G Y Z  
X C R G R A  
A C E H A C  
D T F C R P X S  
E Y R E L L E W E J H A A J  
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Q C O M E H C  
L I S A

Creative

Arts

Fashion

Fashion

Technology

Floristry

Graphic

Design

Technology

Jewellery

# Skill #31: FASHION TECHNOLOGY

Fashion designers develop and create new clothing and accessory designs. They analyze fashion trends, choose the colours and fabrics and work closely with production, marketing and sales departments to design, produce and promote ready-to-wear products. Fashion designers are skilled garment producers who perform most of the technical, pattern making and sewing tasks. The clothes you own were created by a fashion designer.



What PPE should I be wearing for this event?



circle all that apply

Which WorldSkills Members are participating in this skill?



I am cheering for:



## Skill #28: FLORISTRY

Floristry, or flower arranging, is the art of creating bouquets and compositions from flowers, foliage, herbs, ornamental grasses and other botanical materials. Floral displays can also be created from dried flowers, paper flowers, silk flowers, fruits and other materials. A person who designs flower arrangements is known as a florist. The flowers you bought for mom on Mother's Day were arranged by a florist.

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



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## Skill #40: GRAPHIC DESIGN TECHNOLOGY

Graphic designers research and manage visual design projects, with a primary focus on electronic media, while working closely with their clients to create a product that is visually appealing. Graphic designers use images, print styles and visual effects to communicate their message clearly and persuasively. Skills include producing ideas, creating layouts, digital editing, typography, producing graphics, typesetting, printing and presenting the final product. The WorldSkills logo was created by a graphic designer.

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:



# JEWELLERY

Jewellers create beautiful and durable jewellery out of precious metals for a variety of customers. Skill aspects of jewellery making include sawing, filing, soldering, casting and forging of metals such as copper, silver, gold and platinum. Jewellers also use inlay, filigree, chasing and other decorating techniques to create their jewellery pieces. Your grandmother's gorgeous wedding ring was made by a jeweller.

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

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September 1-7

# Social & Personal Services

Social & Personal Services covers all the skilled areas that are related to the service industry. This includes services related to the food and beverage industry as well as hospitality and personal care. These skills make everyone's life more enjoyable.

The 6 competition areas included in this sector are: Beauty Therapy, Caring, Confectioner/Pastry Cook, Cooking, Ladies'/Men's Hairdressing and Restaurant Service.

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Confectioner    Cooking  
Pastry  
Cook  
Ladies'  
Men's  
Social  
Hairdressing  
Personal  
Services  
Restaurant  
Service  
Beauty  
Therapy  
Caring



E H  
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M E N S  
C R O M I L  
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D S

Please try our  
word search!

B G A S E Y L A R T  
A S N D F V T G A Y W P  
M C U I Z C O U S U O M S M  
S U G K W E L A N O S R E P A  
N R E N O I T C E F N O C R R S  
C P W I O U T Y B T M S E V Y N  
X L O S C A C A R I N G Z I R B  
Z A Y S S F O D F D T S E C T H  
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O E V D L K H J D F G S A D P W  
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A K I S H Y J O U T C S P D  
D A Y P A R E H T C O S  
H S E R V I C E U N  
C Y U H O E F



Skill #30:

# BEAUTY THERAPY

A beauty therapist is a specialist in skin care, skin care advice, massage and makeup. Beauty therapists are able to plan, apply and sell face, body, feet and hand treatments, as well as makeup. Beauty care professionals work together with fashion, media, hairdressing and health care professionals. Beauty therapists will help you get ready for big events, like a New Year's Eve party, or your graduation.

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:

Skill #41:

# CARING

Caring is a team competition that covers a broad range of abilities and activities dealing with social care, nursing and rehabilitation. Skills include supporting client growth and development, assessment, planning, implementation, evaluation, management and demonstrated competence. Caring includes applying ethics, ergonomics, equality, safety and environmental regulations. If you seriously hurt yourself, you will visit a caring professional as you try to get better.

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:

# CONFECTIONER/PASTRY COOK

Confectioners and pastry cooks create delicious products for all kinds of events. Confectioners need artistic flair and talent. They make, present and decorate layer cakes, pastries, biscuits, chocolates, sugar and marzipan (molded) sweets, as well as cold and warm desserts. Health and safety regulations are extremely important. Every time you buy cakes and other goodies for your parties, you have been helped by these skilled professionals.



What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

# COOKING

A cook is trained to plan menus, prepare appealing and nutritious meals according to health and safety regulations and manage commercial kitchens. Cooks prepare, season and cook a variety of foods according to recipes, carve meats, determine portion sizes, arrange foods and add sauces, gravies and garnish to servings. They also oversee menu planning, estimate food requirements, prepare and follow budgets and supervise kitchen staff. Everytime you eat out, a cook is preparing your meal.



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:



What PPE should I be wearing for this event?



# LADIES'/MEN'S HAIRDRESSING

Ladies'/Men's Hairdressing consists of correct cutting techniques, curling, colouring and barbering. Hairdressers must demonstrate creativity, imagination and technical ability combined with commercial awareness. They are skilled in shaving, trimming beards and moustaches and can provide services such as bleaching, highlighting, permanent waving and straightening. Unless your mom cuts your hair, a professional hairdresser is who you visit when you want a "little taken off the sides".

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this event?



I am cheering for:

# RESTAURANT SERVICE

Professional restaurant servers are skilled in serving food and drinks, mixing international drinks and working behind the bar. They are professional in taking customers' orders, preparing food in front of customers, serving food and wine, identifying alcoholic drinks, setting and clearing tables and folding napkins. Restaurant servers also use espresso coffee machines to make specialty coffee. If you eat at an upscale restaurant, you will be served by a restaurant service professional.

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:



Sector:

# Transportation & logistics

Transportation & Logistics covers all the skilled areas that are related to the transportation world. This includes creating, repairing and maintaining transportation vehicles. No matter how you get to where you are going, you will rely on professionals from this sector.

The 4 competition areas included in this sector are: Aircraft Maintenance, Autobody Repair, Automotive Technology and Car Painting.

ZZFGW  
TFARCRIA  
ECCEW UHM  
CPRZLF XCZ  
TZSVGRP WJI  
LKRACPN GK FVSLM  
QFZHCWURUAUTOMOBILER  
VDXBYDOBOTUACDAGJICNL  
ZSCACATTECHNOLOGYICMYU  
OLFQBOGW CYWNNGNITNIAP  
IYCTTRANSPORTATIONCOKSA  
REPAIRUMAINTEANCEBXSD  
HAZSNDPQCLQLOGISTICCS  
PHOP HOG B  
PF TX

Transportation

Logistics

Aircraft

Maintenance

Autobody

Repair

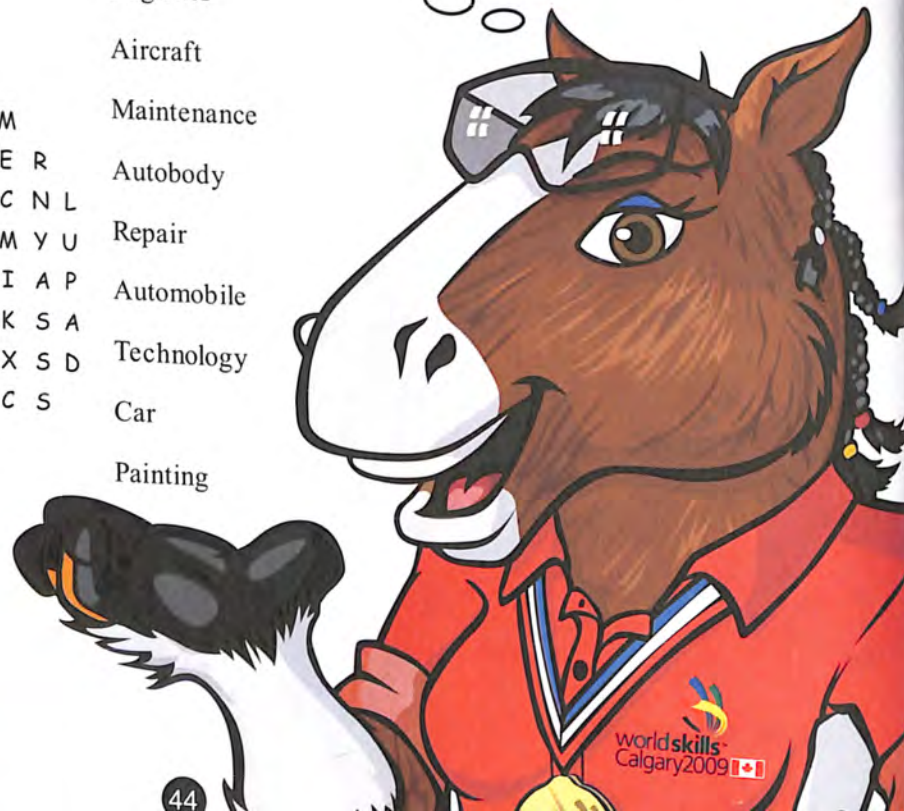
Automobile

Technology

Car

Painting

Please try my word search!



Skill #D01:

# AIRCRAFT MAINTENANCE

An aircraft maintenance technician inspects, services, troubleshoots, removes, installs and repairs aircraft systems. The training of the aircraft maintenance technician covers the airframe, engine, propeller and also includes the mechanical, hydraulic, pneumatic, avionic and electrical equipment in an aircraft. Proper aircraft maintenance allows thousands of people to fly safely all around the world.



circle all that apply

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:



# AUTOBODY REPAIR

Autobody repairers restore bodywork damage, ranging from mechanical to cosmetic. Having first diagnosed the damage, bodywork technicians repair the vehicle to the stage at which it can be painted. Autobody repairers use panel repairing equipment and bodywork realignment devices. Conventional workshop tools and computers are also used. Welding skills are an essential part of bodywork repair. These professionals can make your poor broken car look like new!

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



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# AUTOMOTIVE TECHNOLOGY

Automotive technicians are able to understand the important functions of car systems and carry out troubleshooting, maintenance and repair work. Areas of specialty are diesel engine systems, handling systems, electrical systems, petrol engine systems, transmission and gear systems, chassis and steering systems and mechanical repair of the motor. No matter what you drive, you will eventually need a skilled automotive technician to fix your car.



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

What PPE should I be wearing for this event?

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September 1-7

# Skill #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. Car painters are skilled in repairing car bodywork, can apply finishes to different materials and are able to repair painted surfaces. Anytime you have damage to your car fixed, you will need a car painter.



What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

# Sector: Construction & Building Technology

Construction & Building Technology covers all the skilled areas that are related to the construction world. This includes everything from preparing the foundation to the building, finishing and maintaining of all sorts of buildings, as well as designing and caring for the grounds. Without these skilled professionals, you would be living in a cave.

The 14 competition areas included in this sector are: Bricklaying, Cabinetmaking, Carpentry, Electrical Installations, Industrial Control, Joinery, Landscape Gardening, Metal Roofing, Painting & Decorating, Plastering & Drywall Systems, Plumbing & Heating, Refrigeration, Stonemasonry and Wall & Floor Tiling.



Please try our word search!



Q E R U F A  
H D T I D E C O R A T I N G N B G N  
B R I C K L A Y I N G T X S H E D O R S P  
S Y X T E M R T E O N I L L A W  
T W D E F O P M G N I N E D R A G  
O A P O J X E S E I B T I L I N G O  
V N L M E U D N O V S M O H P D Q C O N  
T R E L E L H D T N A B U A C Y R E N I O J  
E M A Z O B O R U H C L S Y O Z S H R I  
H A I A Y R N Y M Y X P A I N T I N G T  
Z S R C A B I N E T M A K I N G K N E A  
G O T D P O R E C V B F G D T L R  
N N S Z W G E T D G A E S D E A E  
I R U D R I V A A O L W C G  
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P S A J E S M B Y O G N I T A E H  
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|               |               |              |
|---------------|---------------|--------------|
| Bricklaying   | Metal         | Stonemasonry |
| Cabinetmaking | Roofing       | Wall         |
| Carpentry     | Painting      | Floor        |
| Electrical    | Decorating    | Tiling       |
| Installations | Plastering    |              |
| Industrial    | Drywall       |              |
| Control       | Systems       |              |
| Joinery       | Plumbing      |              |
| Landscape     | Heating       |              |
| Gardening     | Refrigeration |              |



Skill #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. A bricklayer is able to select and prepare mortars, build interior and exterior walls and partitions, as well as lay radial brick or stone for chimneys, garden walls, footpaths, arches, patios and balconies. A bricklayer builds the fancy walls you see surrounding the homes of the rich and famous.



What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

Skill #24:

# CABINETMAKING

A cabinetmaker works with wood to produce furniture, cabinetry and architectural millwork from a variety of natural and manufactured materials. Cabinetmakers can identify various types of wood and composite materials, safely operate hand and power tools, construct staircases, doors, furniture, mouldings and cabinets. They must master a combination of traditional and contemporary techniques using hand tools and computerized woodworking equipment. The cupboards in your home were built by a cabinetmaker.

What ppe should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:



# CARPENTRY

Carpenters are vital to almost every facet of the construction industry. They must have expertise in a wide variety of skills that are needed in commercial construction as well as in residential building and structural maintenance. Carpenters can prepare the foundations of buildings, install beams, girders and footing forms, build stairs and construct sloped and unequal pitch roofs. They are also skilled at installing trim, doors, baseboards, mouldings, cabinets and other finish carpentry. Carpenters built your home!



What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

# ELECTRICAL INSTALLATIONS

Electrical installers manufacture, maintain and repair electrical equipment for houses, industrial sites and power stations. Their work involves electrical distribution devices such as switchboards, cables and cable routers, as well as a variety of safety devices such as fuses, thermal relays and fault current protection switches. The electrical equipment and systems they install may include heating, lighting, air conditioning and metering equipment, as well as crime and fire alarm systems. Your home's security alarm was installed by an electrical installer.



circle all that apply



Which WorldSkills Members are participating in this event?



I am cheering for:

What PPE should I be wearing for this event?



# INDUSTRIAL CONTROL

Industrial Control covers elements from electrical installation, automation installation and mechatronics. Industrial controllers install conduits, cables, devices, instruments, automated devices and control centre fittings quickly and safely. They design circuits, parameters, as well as program and apply frequency transformers and programmable logic. These professionals use hundreds of kilometres of wiring to keep the lights on and machines running in large manufacturing plants.

*What PPE should I be wearing for this event?*



Which WorldSkills Members are participating in this skill?



I am cheering for:

# JOINERY

Joinery is the process of connecting or joining two pieces of wood together through the use of various forms of wood joints. In fine woodworking, common forms of joinery include dovetail joints, biscuit joints, lap joints, mortise-and-tenon joints and spline joints. Joiners construct doors and windows, including frames and furniture. In Joinery, traditional craft methods are used along with a variety of woodcutting machines. Your grandpa's fancy, old, wood rocking chair was made by a joiner.

*What PPE should I be wearing for this event?*



Which WorldSkills Members are participating in this skill?



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Skill #37:

# LANDSCAPE GARDENING

Landscape Gardening is a team event, requiring a variety of tasks, which include designing, developing and applying landscape plans, hauling and spreading topsoil, caring for plants, mowing, watering, fertilizing and trimming. Landscape gardeners are competent with using different materials such as soil, plants and artificial materials. They are familiar with building elements such as concrete slabs, natural stone, wooden structures and water structures. The beautiful Devonian Gardens in downtown Calgary were created, and are cared for, by landscape gardeners.

What PPE should we be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:

Skill #14:

# METAL ROOFING

Roofers build and install roofs, walls, furring, guttering and roof safety structures at construction sites. Roofers need to know about raw materials, mathematics and expanding/contracting metal. Metal Roofing is an area of craftsmanship that goes back hundreds of years. Metal roofers today use stainless steel, copper, zinc, aluminum and lead sheet materials. Houses with fancy copper roofs required the work of skilled metal roofers.



Which WorldSkills Members are participating in this skill?



I am cheering for:

What PPE should I be wearing for this event?

# PAINTING & DECORATING

Painting & Decorating involves preparing surfaces, selecting paints and colours, brushing, rolling or spraying paints and applying decorative finishes. Painters must be able to plan their work so that one phase leads into another without unnecessary delay from drying materials. They need drawing ability, planning skills and an eye for colour and shapes. Painters know the characteristics of the materials they use and choose the best tools for the job. After the wall is built and prepped, a painter adds the finishing touches so that it becomes the focal point of the room.

What PPE should I be wearing for this event?



Which WorldSkills Members are participating in this skill?



I am cheering for:

# PLASTERING & DRYWALL SYSTEMS

Plastering & Drywall Systems consists of preparing and fitting panel mouldings and other plaster fittings, installing acoustic walls and treatments and spraying of fibrous materials. Plasterers have an understanding of working with gypsum plasterboard, the processing of moulded decorations with prefabricated elements containing interior coatings, stained or not, smooth or with texture. Plasterers can fix holes in your wall and prepare it for new paint.



Which WorldSkills Members are participating in this skill?



I am cheering for:

What PPE should I be wearing for this event?



# PLUMBING & HEATING

Plumbing & Heating consists of installing water, drainage and heating pipes. These tasks include gas and compressed air pipe installations. Fixing pipes to the wall is an essential part of pipe installation. Pipes are welded, soft-soldered, hard-soldered, threaded and joined with different fixings. Another important skill is installing visible fittings such as showers, basins and other plumbing installations. Your bath tub was installed by a plumber.

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

# REFRIGERATION

Refrigeration technicians install components which form the refrigeration system. This includes soldering pipes and the safe handling of refrigerants without causing danger to the environment. They are skilled in electronics and understand airflow techniques. Refrigeration technicians work in factories, manufacturing shops, and customers' houses. They are able to read installation specifications and choose the best implementation method. On a hot summer day, when your air conditioning stops working, these are the professionals you call.

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:



Skill #21:

# STONEMASONRY

Stonemasonry is the art of carving stone. The artisan must read the material, master the tools and have an eye for design. Buildings, structures and sculptures from stone are all constructed by stonemasons. Today's stonemasons use a variety of power tools and hand tools to create objects that can stand the test of time. All types of artificial, natural, igneous, metamorphic and sedimentary stone are used in Stonemasonry. The gargoyles you see perched on old churches were created by stonemasons.

What PPE should I be wearing for this event?



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

Skill #12:

# WALL & FLOOR TILING

Wall & 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. The professional tiler is required to carry out measurements and calculations, read and interpret plans, apply basic levelling procedures, carry out mosaic tiling, tile on curved surfaces and apply waterproofing processes. All the tiles at your local swimming pool were installed by a tiler.



circle all that apply



Which WorldSkills Members are participating in this skill?



I am cheering for:

**BMO Center****Hall A**

Skill #28, 29, 30

**Hall B**

Skill #03, 06, 07, 31

**Hall C**

Skill #01, 08, 11, 20, 27

**Hall D**

Skill #13, 33

**Hall E**

Skill #05, 32, 34, 35

**Corral**

Closing Ceremony

**Big 4**

Skill #04, 12, 15, 16, 22, 23, 38, 39, D03

**Grandstand**

Skill #02, 09, 17, 40, 41

Opening Ceremony

**Agriculture Building**

Skill #14, 21

**Skills Tent 1**

Skill #24, 25, 26, 37

**Skills Tent 2**

Skill #18, 19

**Skills Tent 3**

Skill #10, D02, HM01

**Skills Tent 4**

Skill #36

**Skills Tent 5**

Skill #D01

**Global Skills Village**

Alberta House

Canada House

Trade Show

**Skill City (Big Top)**

Try-A-Trade®/ Try-A-Skill Activities

**Miscellaneous Tents/Vehicles**

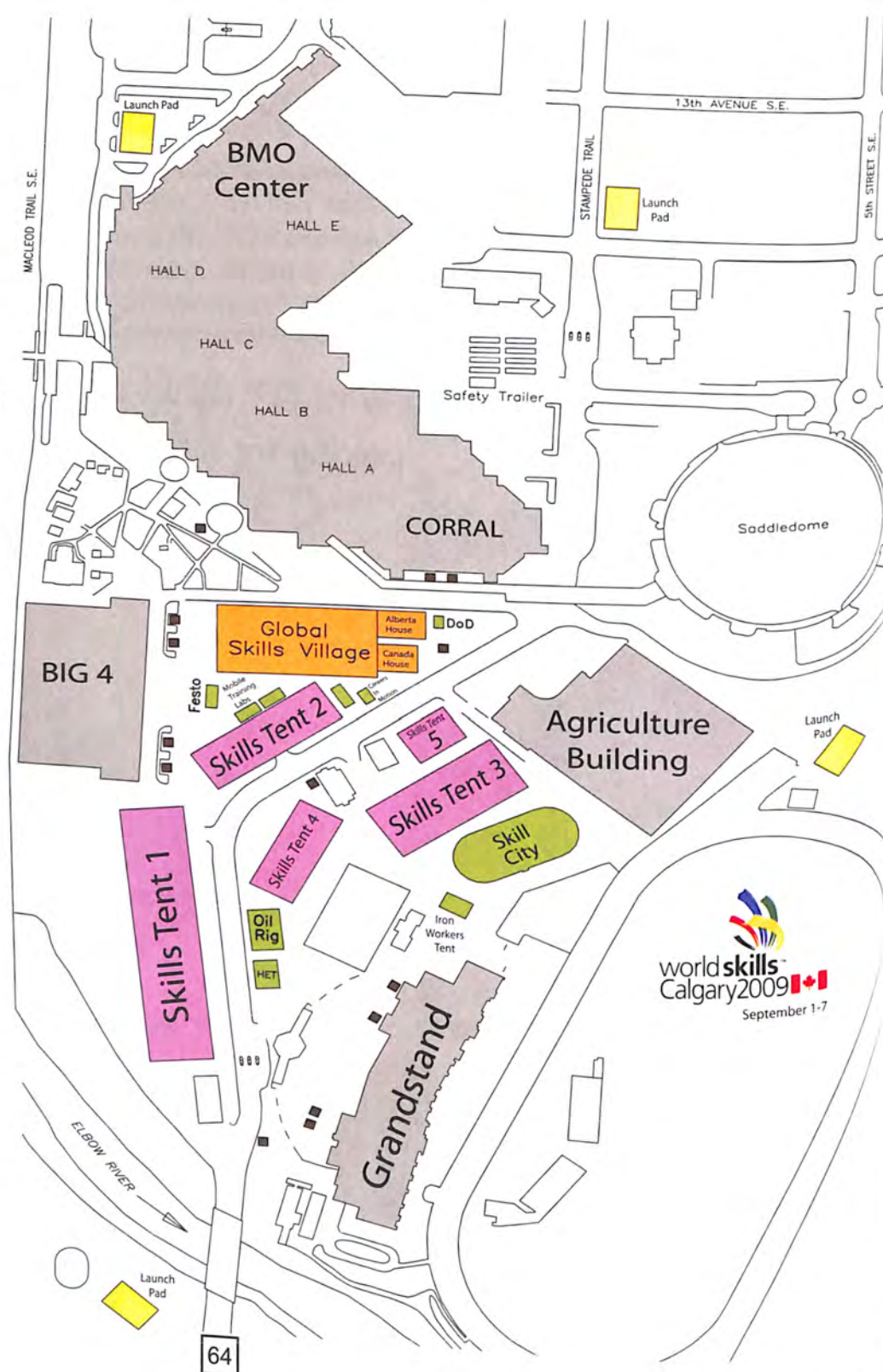
Try-A-Trade®/ Try-A-Skill Activities

**Launch Pads**

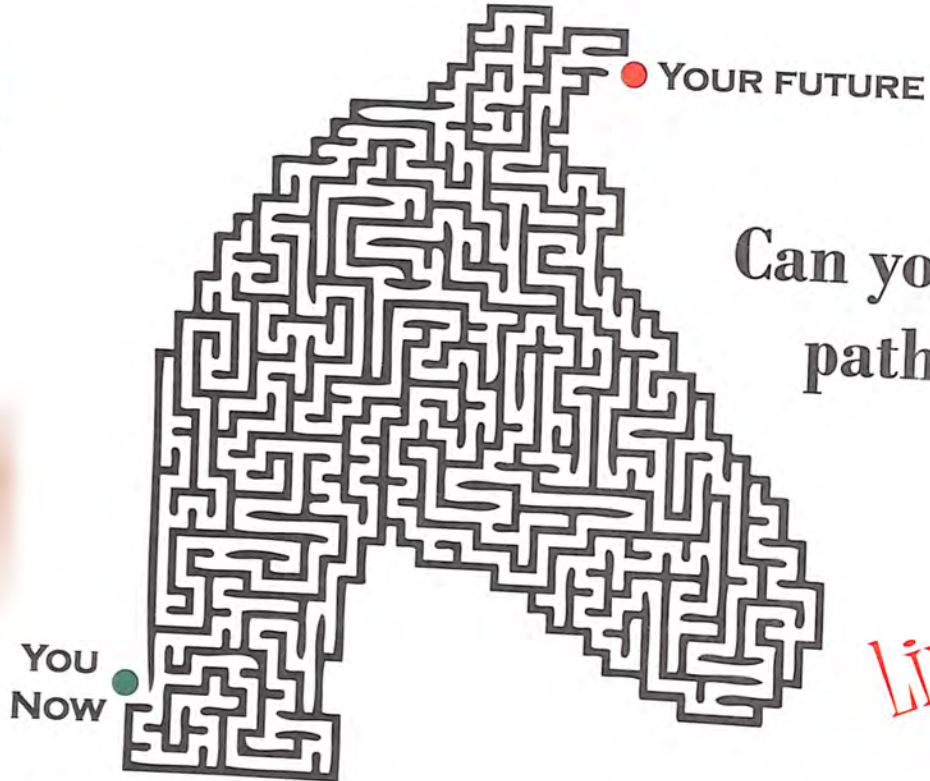
Student Arrival &amp; Orientation

**Food Kiosks**

# WSC2009 Venue Map - Stampede Park



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Calgary2009  
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Can you find the shortest path to your future?

*Live the skilled life*



## Questions to Ponder...

- What are your three favourite skills that you want to see at WSC2009?
- Which skill surprised you the most? Why?
- If you could pick only one skill to pursue as a career, which one would it be? Why?
- Would you like to find out more about these career options? Why or why not?
- Which WSI Member countries/regions have you visited?
- Which WSI Member countries/regions would you like to visit? Why?
- Do you know the names of your WSI Member's Competitors?
- If your school is a Host School, what question will you ask the Competitors?

## One School, One Country Quiz

1. What does "WSI" stand for?
2. What does the WSI logo represent?
3. What does "WSC2009" stand for?
4. What is the other official name of this upcoming event?
5. How many days of Competition are there at WSC2009?
6. What WSI Member are you studying?
7. How many Members does WSI currently have?
8. What is Canada's ISO Country Code?
9. What is the name of the Canadian Member Organization to WSI?
10. How many times has Canada hosted a WorldSkills Competition?
11. How many 'sectors' does WSI have?
12. What are the names of each of the sectors?
13. How many skill competitions are there in each of the sectors at WSC2009?
14. How many skill competitions are being held at WSC2009?
15. How many WSC2009 skill competitions are team events?
16. What does "PPE" stand for?
17. What should you do if you see a warning sign that you do not understand?
18. How many WSC2009 skill competitions require head protection to be worn?
19. How many WSC2009 skill competitions require eye protection to be worn?
20. How many WSC2009 skill competitions require hearing protection to be worn?
21. When was the very first International Skills Competition held?
22. What are the names of the official WSC2009 mascots?
23. Who is the Presenting Sponsor of the One School, One Country program?
24. Who is WSC2009's One School, One Country Coordinator?
25. Who is invited to visit the WSC2009 Competition?



# Tug

Official mascot of:



- ✓ 45 skill categories
- ✓ 51 countries/regions
- ✓ 900 competitors
- ✓ See YOU there!

[www.worldskills2009education.com](http://www.worldskills2009education.com)

# Tess

Official mascot of:



- ✓ 45 skill categories
- ✓ 51 countries/regions
- ✓ 900 competitors
- ✓ See YOU there!

[www.worldskills2009education.com](http://www.worldskills2009education.com)



Government Partners



Legacy Partners



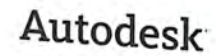
Global Founding



Founding



Platinum



Gold



## Supporting



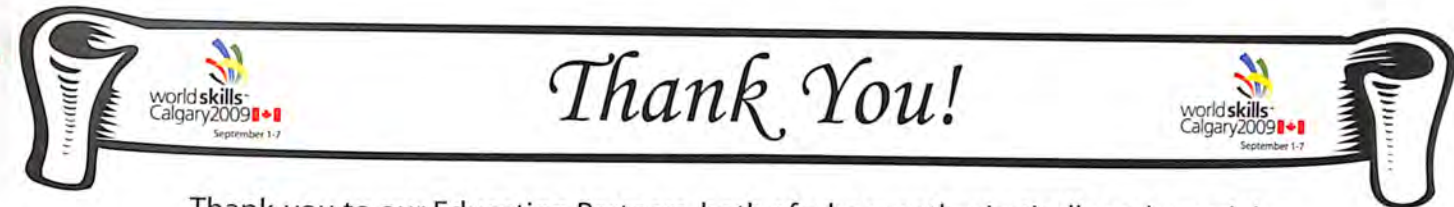
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