



45TH WORLDSKILLS COMPETITION
AUGUST 22 – 27, 2019
KAZAN EXPO INTERNATIONAL CENTRE
KAZAN, RUSSIA

WORLDSKILLS
TEAM CANADA 2019
**SELECTION
PROCESS**



Canada

SKILLS/ COMPÉTENCES CANADA



WHY WE EXIST

To encourage and support a coordinated Canadian approach to promoting skilled trades and technologies to youth.

OUR FUTURE STATE

Canada leads the world in skill development.

WHO WE ARE

Skills Canada was founded in 1989 as a national, not-for-profit organization with Skills Canada member organizations in each of the provinces/territories that work with employers, educators, labour groups and governments to promote skilled trades and technology careers to Canadian youth. Based in Ottawa, Ontario, Skills Canada is the Canadian member organization of WorldSkills. Its unique position among private and

public sector partners enable it to work toward securing Canada's future skilled labour needs while helping young people discover rewarding careers.

WHAT WE DO

Skills Canada offers experiential learning opportunities including skilled trade and technology competitions for hundreds of thousands of young Canadians at the regional, provincial/territorial, national and international levels, as well as skilled trade awareness programs. A lack of information regarding the opportunities in trades and technologies prohibits many young Canadians from considering a career in these fields. SCC helps make these occupations more visible for teachers, students, parents and the general public. Many programs highlight the nine Essential Skills, which are crucial skills in today's careers.

WHY WE ARE NEEDED

Canadian employers currently find it difficult to hire and retain skilled workers. We want to help Canada's industries find well-trained, well-prepared young people to fill these positions. SCC wants youth to understand the many opportunities, benefits and rewards of skilled trade and technology careers. Improving the expertise and confidence of individuals pursuing technical careers will benefit everyone.

ESSENTIAL SKILLS

FAST FACTS

Canadians and Proficiency in Essential Skills

- Canadians 16-24 years of age ranked below average in numeracy and literacy compared to their peers in 23 other countries and regions (OECD, 2012)
- 42% of Canadians score within the Level 1 and 2 range on the IALS.
- Canadian students ranked 8th and 10th in math and science respectively among OECD nations
- A lower proportion of Canadians are at a 4 or 5 essential skills complexity level and a higher proportion is at level 1 or below (PIACC)
- Provincial/Territorial findings at the Secondary level are not positive. For example in Ontario, Grade 9 students in Applied Math are only functioning at 47% of the provincial standard (EQAO, Grade 9 assessment)
- 48% of all adult Canadians fall below the high-school equivalency (level 3) on the literacy scale (PIAAC)
- 2/5 of employed Canadians fall below high-school levels for literacy and numeracy skills
- In Canada, about 28% of your earnings is directly related to your Essential Skills

The Importance of Essential Skills to Industry

- Technology is advancing at a rapid pace which leaves little room for secondary level education to catch up with the demands of PSE or industry.
- 74% of Canadian employers consider essential skills strategically relevant to their business. Emphasis to date has been on training and re-training in the workplace. There is a need to bridge the gap between the classroom and the workplace.
- Research has indicated that a 5 point gain in essential skills scores would increase the GDP by 1.5% which equates to 22.5 billion dollars a year. (IALS)
- Enhanced essential skills prepare employees for managerial and technological changes in the workplace, and position the company for greater competitiveness.



Essential Skills and the Workplace

- Employers report that graduates are coming to their workplace with only 30% of the skills needed for the job
- Essential Skills are linked to better performance, which then leads to better quality work, productivity, and retention.

After embedding Essential Skills training into the workplace...

- 65% of employers saw increased productivity
- 80% of employers saw better quality of work
- 75% of employers saw better use of new technology
- 70% of employers saw an increase in staff retention
- 66% of employers saw a decrease in errors

Essential Skills and the Trades

- With proficiency in Essential Skills you will understand and remember concepts introduced in technical training.
- The level of Essential Skills required for most trades is as high or higher than it is for many office jobs.
- Apprentices with the Essential Skills they need for their Trade are 8 times more likely to pass their technical exams.







**Kazan
Expo**

Welcome to
Kazan Expo

**CONGRESS
HALL**

A FEW INTERESTING FACTS
ABOUT THE HOST COUNTRY –

**THE RUSSIAN
FEDERATION**

ABOUT WORLDSKILLS KAZAN 2019

More than 1,300 competitors from over 70 Member countries and regions will compete in over 50 skill areas representing six sectors:

- Manufacturing and Engineering Technology
- Information and Communication Technology
- Construction and Building Technology
- Transportation and Logistics
- Creative Arts and Fashion
- Social and Personal Services

The Competition takes place in front of approximately 150,000 spectators in over 800,000 square feet of space in a newly constructed building.

The WorldSkills Competition inspires youth to discover the many careers that are available in the skilled trade and technology sectors. With an increasing demand for skilled workers, the trade and technology sectors represent a lucrative and exciting career path for youth around the world.

Throughout the Competition, stakeholders from industry, government, and education are provided with the opportunity to exchange information and best practices regarding industry and professional education at networking events and thought-provoking conferences.

The event slogan is “Skills for the Future”, which is also the official Competition hashtag: #skillsforthe future.

For more information, visit: worldskills2019.com.

- The territory of Russia is 1/9 of the Earth, so, there are ten time zones
- Global wide Russia is a European country but 2/3 of its territory are located in Asia

- Russian population is 145 million people of 160 nationalities in total
- Climate is various: in Sochi the winter temperature can be +5°C and while in Yakutia it touches on -55°C. The average summer temperature is around +20°C

- Moscow is the capital of Russia, its population is 11 million people
- Kazan is the capital of the Russian region Tatarstan. In 2009 Kazan gained the name “Third Capital of Russia”

HELP WORLDSKILLS TEAM CANADA 2019 ACHIEVE GOLD!

Thanks to the involvement of our partners, WorldSkills Team Canada has the opportunity to participate in this international event that brings together the world's most talented competitors in skilled trades and technologies.

The 2018 Skills Canada National Competition (SCNC) was a qualifying year for youth to compete at WorldSkills Kazan 2019 (see chart below). Two top age-eligible candidates in up to 29 skill areas will have the opportunity to train with the help of a trainer and expert. They will then compete head to head in a Team Canada selection event that will be held in conjunction with the 25th Skills Canada National Competition to determine who will represent Canada at WorldSkills Kazan 2019.

Once selected, WorldSkills Team Canada 2019 competitors will continue their preparation for the highly challenging four-day competition in Kazan.

WorldSkills Team Canada 2019 will participate in the following skill areas:

- | | | |
|------------------------------|--------------------------------|---------------------------------------|
| — Mechatronics | — Electrical Installations | — Cooking |
| — Mechanical Engineering CAD | — Industrial Control | — Car Painting |
| — CNC Turning | — Mobile Robotics | — Landscape Gardening |
| — CNC Milling | — Electronics | — Refrigeration and Air Conditioning |
| — Industrial Mechanics | — Bricklaying | — IT – Network Systems Administration |
| — Millwright | — Cabinetmaking | — Graphic Design Technology |
| — Welding | — Hairdressing | — Heavy Vehicle Maintenance |
| — Autobody Repair | — Beauty Therapy | — 3-D Digital Game Art |
| — Aircraft Maintenance | — Fashion Technology | — Cloud Computing |
| — Plumbing and Heating | — Pâtisserie and Confectionery | |
| — Web Design and Development | — Automobile Technology | |

The majority of competitors (92%) have entered the job market one way or another: over 4 in 5 respondents (84%) are working full-time

WSTC19 TEAM CANADA PROSPECTS PATHWAY

- 1 IN-SCHOOL COMPETITIONS**
 - 1 It begins with in-school competitions, supported by teacher encouragement.
- 2 REGIONAL COMPETITIONS**
 - 2 Progress to regional competitions.
 - 3 Approximately 100,000 youth advance to the provincial/territorial levels.
- 3 PROVINCIAL/TERRITORIAL COMPETITIONS**
 - 4 Over 550 students compete at the Skills Canada National Competition. The two highest-ranking age eligible participants in identified Skill Areas at the Skills Canada National Competition are selected to participate in the next stage of the WorldSkills Team Canada Selection Process.
- 4 2018 SKILLSCANADA NATIONAL COMPETITION**

.....
September 2018 — Training starts for WorldSkills Kazan 2019
.....

- 5 WORLDSKILLS TEAM CANADA 2019 ORIENTATION MEETING**
 - 5 Two competitors, two trainers and one expert in each identified Skill Area will participate in a WorldSkills Team Canada Orientation Meeting.
- 6 WORLDSKILLS TEAM CANADA 2019 COMPETITORS MEETING**
 - 6 WorldSkills Team Canada 2019 Prospects participate in a meeting focused on team building and mental preparation.
- 7 WORLDSKILLS TEAM CANADA 2019 SELECTION EVENT**
 - 7 Two WorldSkills Team Canada 2019 Prospects will participate in the WorldSkills Team Canada 2019 Selection Event. The winners from this event are named to WorldSkills Team Canada 2019.
- 8 WORLDSKILLS TEAM CANADA COMPETE AT WORLDSKILLS KAZAN 2019**
 - 8 One WorldSkills Team Canada 2019 member per Skill Area represents Canada at the 45th WorldSkills Competition.

