



**SkillsCompétences**  
Canada  
British Columbia

**WELCOME**



## ABOUT SKILLS CANADA BC

- **Trades & Technology Awareness**
- 25+ Years
- Non-Profit Organization
- Funded by Government and Employer partners/sponsors

# 2020 Government Sponsors

Canada 



ita  
YOUR TICKET.





# Our Mission and Vision

## **Vision**

Today's youth become tomorrow's skilled trades and technology leaders.

## **Mission**

Be the catalyst that creates and fosters connections within communities facilitating exposure to trades, technology, and career opportunities for youth.

## **Success**

Skills Canada BC leads and coordinates youth engagement in trades and technology careers in BC.



## How do we meet these goals?

- Trades & Technology Competitions
- School Programs and Conferences
- Work with School districts, Post Secondary, partners, sponsors and volunteers to achieve this



## WHAT IS A SKILLED TRADE?

- Skilled Trades = Careers that are hands-on, creative, technical and practical
- "SKILLED" means you have expertise and training.
- Involves Post Secondary training
- Typically a 4 year apprenticeship
- Involves "hands-on" job training
- Skilled trades are in demand

# TECHNOLOGY CAREERS

- Technology jobs are in demand.
- Many technology careers require Post Secondary training first eg) Medical laboratory technologist, radiographer
- Some jobs combine Trades and Technology (EG Automobile Service Technician)
- New technology jobs and careers are constantly evolving. Some jobs in the technology fields didn't exist 10 years ago



## **World Skills**

(Every 2 Years)- Typically Sept/Oct



## **Nationals (Skills Canada)**

(Different Province every year) Typically May/June



## **Provincials (Skills Canada BC)**

(Tradex, Abbotsford) Typically every April



## **Regionals Competitions- Skills Canada BC**

**13 Regional locations in BC- Typically every Feb/March**



# Skills Canada BC Regional & Provincial Competitions

Skills Canada BC annually holds **56** Trades and Technology competitions for BC students that are potential in demand careers

.





## 3 Levels of Competitions

- Junior Skills
- Secondary
- Post Secondary



# **6 Main Categories of Skills Canada Competitions = Careers in Trades and Technology**

**Construction**

**Manufacturing**

**Transportation**

**Information Technology**

**Services**

**Employment**



# Construction

Automation and Control

Bricklaying (Masonry)

Cabinetmaking

Carpentry

Electrical Installations

Landscape Gardening

Plumbing

Refrigeration

Sheet metal

Sprinkler System Installer

Steamfitter Pipefitter

Wall and Ceiling (Drywalling)

Welding









# Manufacturing

CNC Machining

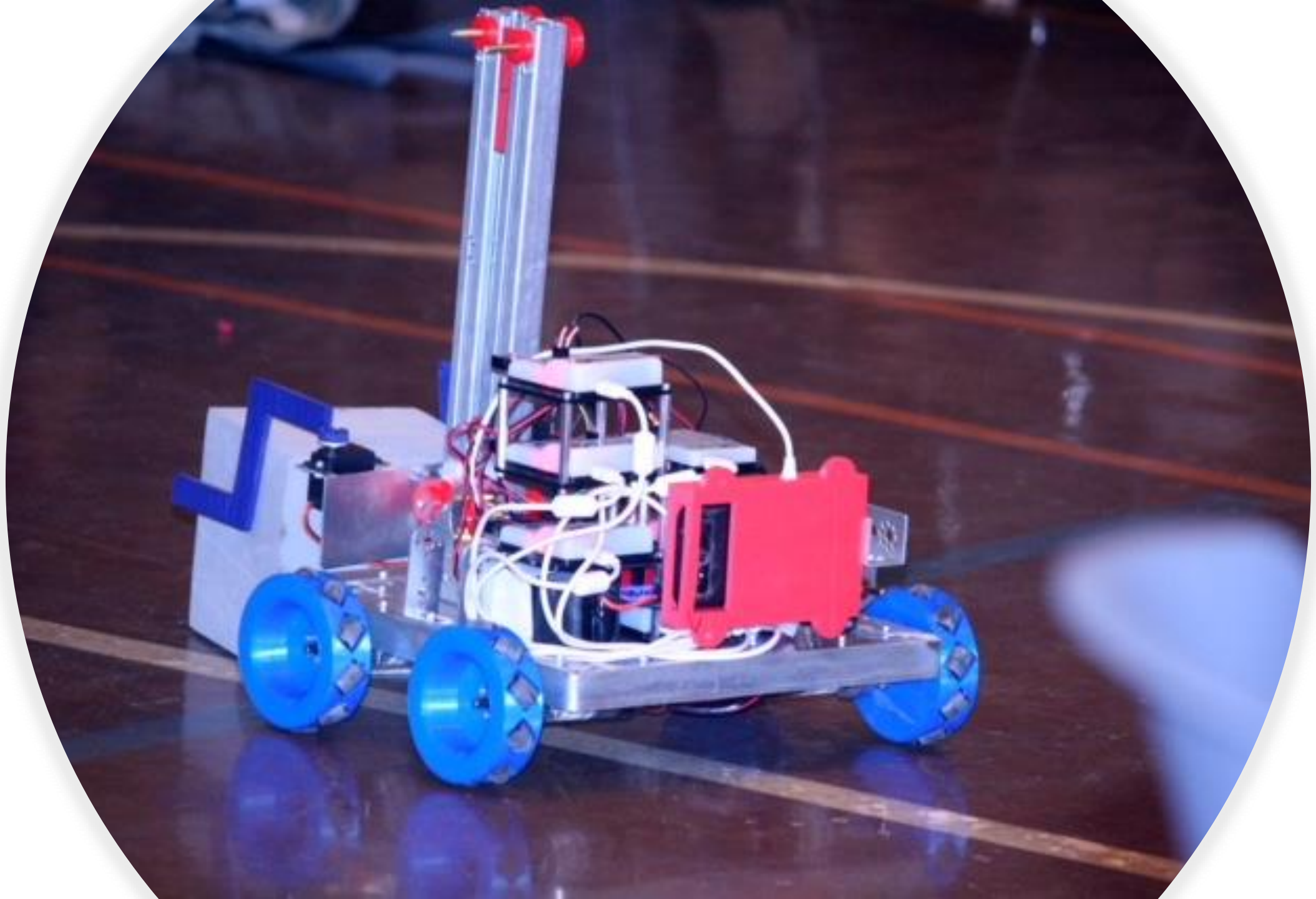
Industrial Mechanic/Millwright

Mechatronics

Mobile Crane

Robotics (Mobile Robotics)

Precision Machining









# Transportation

Aerospace Technology

Automotive Collision Repair

Automotive Technology

Car Painting

Heavy Vehicle Service

Motorcycle and Power Equipment











# Information Technology

2D/3D Animation

3D Game Art

Architectural/Mechanical CAD

Electronics

Graphic Design

IT Network Systems Administration

Photography

TV/Video Production

Website Design









## Services

Aesthetics

Baking

Cooking

Fashion Technology

Hair Styling











# Employment

Job Search

Public Speaking

Workplace Safety





# Junior Skills

Gearbots (Lego Robotics)

Gravity Vehicle

Sumo Robot

Potential Energy Vehicle

Spaghetti Bridge

VEXIQ Robotics

Wind Turbine





**Jr. Skills Competition :  
Gravity Vehicle**



# Sumo Robots





# Spaghetti Bridge





# How to get involved in the TRADES AND TECHNOLOGY COMPETITIONS?

[www.skillscanada.bc.ca](http://www.skillscanada.bc.ca)





## How to get Involved?

- Contact your Regional Coordinator to learn more about competitions in your region
- Register Students for a Regional Competition
- Use scope documents for ADST classroom activities or to prepare for competitions
- Volunteer
- Judge
- Technical Chair
- Regional Coordinator



# HOW TO GET INVOLVED IN THE SKILLS CANADA BC TRADES AND TECHNOLOGY SCHOOL PROGRAMS?

[www.skillscanada.bc.ca](http://www.skillscanada.bc.ca)





# Let's Talk about Trades & Technology



## How to Get Involved in Programs?

- Inspire classroom programs
- Hands on Activities - Toolboxes
- Competition Documents (Scope)
- Inspire learning portal - Resources
- Online Challenges
- Women in Trades Conferences

# Introduction to Skilled Trades & Technology Careers - Programs

## Key Messages

- What is a Skilled Trade/Technology Job? Create awareness, curiosity, explore
- In-demand careers
- De-bunk the myths
- Apprenticeship – Earn & Learn
- Journeyperson, Red Seal
- High School Programs (ITA Gr 11/12)



## Hands on Activities

- **Toolbox Challenges**
- **Electrical & Piping Challenge**
- **School District Tool Carts**
- **(Victoria, Delta)**



# Competition (Scope) Documents

<https://skillscanada.bc.ca/provincial-competition-documents/>



- Competition documents work great as lessons and workshops in the classroom (ADST)
- Great starting point to enter your students in the competitions
- Utilizes Essential Skills, Math Science, Language Arts, STEM subjects





# Inspire Online Learning Portal:

<https://skillscanada.bc.ca/inspire-information-portal/>



- **Trades & Technology Resources & Links**
- **School Presentation & Sample agenda**
- **Videos**
- **Hands on Activities**
- **Online Challenges**
- **Kahoot – Game – coming soon.....**

# Online Challenges

<https://skillscanada.bc.ca/trades-and-tech-digital-challenges/>

**Win an E-Card by trying out one of our  
weekly online trades and technology challenges!**



## Summer Photography Challenge Winners



**BUSTED**

# Debunking MYTHS

## Skilled Trades Jobs are ALL....

**Trades Jobs are Dirty and Grimy: FALSE**

Trade jobs are hands – on.  
But many are hands – off dirt!



**You don't need any "smarts" or expertise to be in the Skilled Trades FALSE**

Trades & Technology jobs require smart & motivated people!



**Trades & Technology jobs Are for males: FALSE**

Trades and Technology Jobs are for everyone!!





**BUSTED**

# Debunking MYTHS

## Skilled Trades Jobs are ALL....

Trades jobs are dead end jobs - FALSE  
Own your own business or work hard  
and become the boss!



Skilled Trades/Technology Jobs  
don't pay well – FALSE  
Many Skilled Trade & Technology jobs  
pay well...some very well  
...some very, very, well....!!



Skilled trades jobs are not creative- FALSE  
Skilled trades and technology  
people are ARTISTS!  
Build a house, make an APP ,  
design a bridge,  
build a robot etc. etc. etc.....



**TRUE**

**FALSE**

O

R

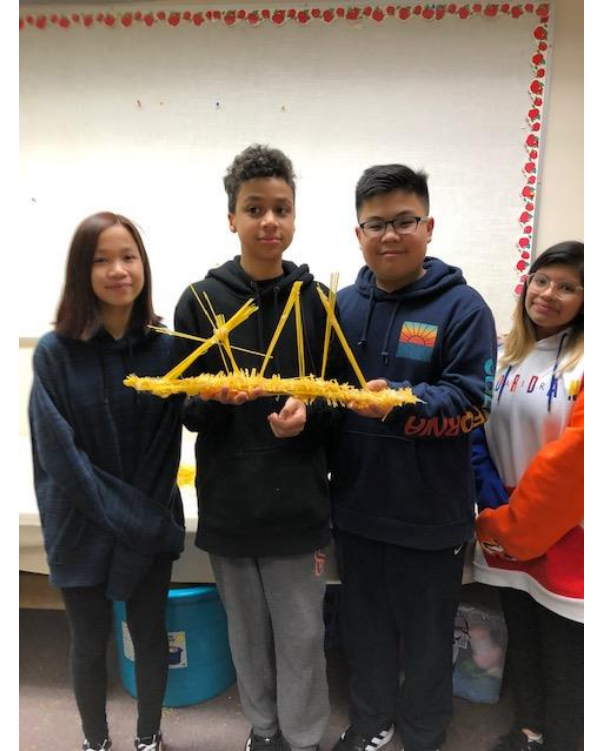
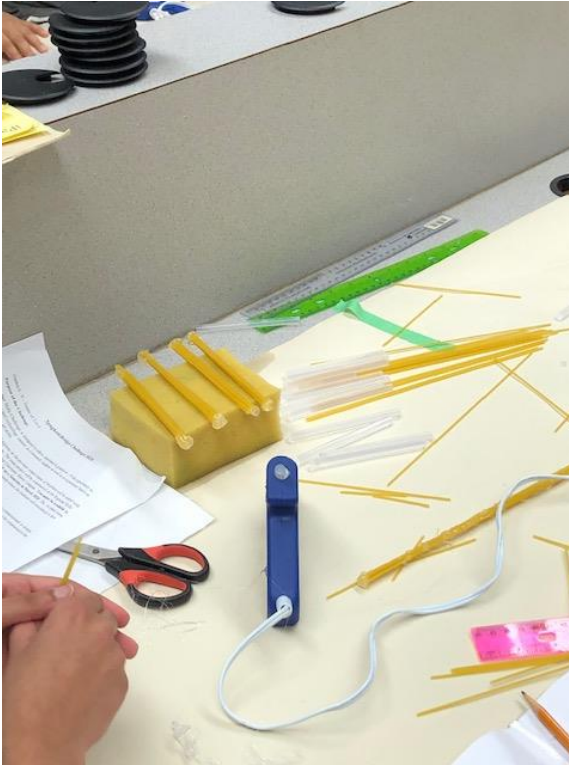
**In the next 10+ years there's expected to be 1000's of trades & technology jobs needing to be filled**

**true**

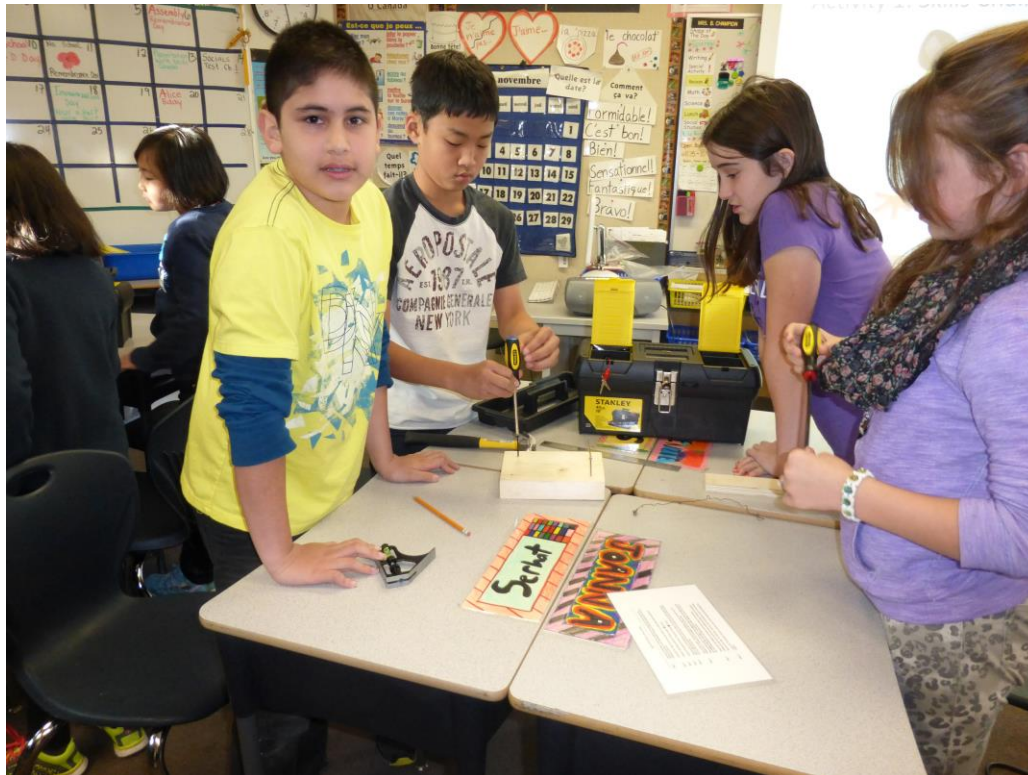
**In the next 10 years, it's estimated that a million jobs are expected to open up in BC and Trades & Technology careers are high on the list!**



# Junior Skills and Spaghetti Bridge in the Classroom



## Inspire in the Classroom









***Watch the video.***

**Observe what happens  
when people in trades and technology  
disappear**

**DECONSTRUCT ALL THE WORK THEY  
HAVE DONE**

**Count off 10 things we would not have if  
there were no people working in trades  
and technology.**





**WHERE WOULD WE BE WITHOUT  
SKILLED TRADES AND TECHNOLOGY PEOPLE?**

**WOULD LIFE COME CLOSER TO RESEMBLING THE DAYS OF  
CAVEMEN AS THE VIDEO SUGGESTS?**





## **BC's Industry Training Authority (ITA)**

ITA manages over 100 trades programs in BC, 49 of which are Red Seal.

Connect with Career Programs in Grade 11 and 12.

Get High School Credits and Level 1 of your technical trades training at a designated training provider, either a university, college or other education institution approved by ITA.



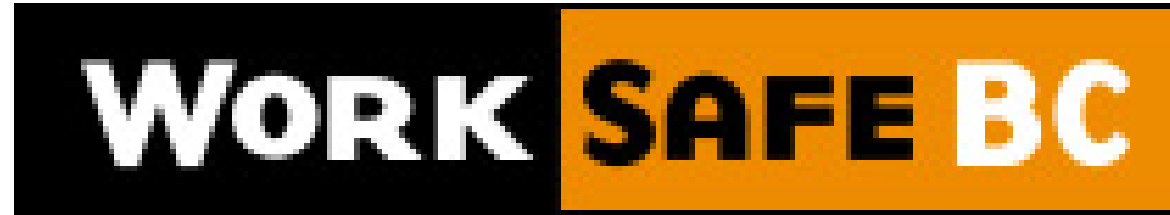


## Youth Train in Trades (formerly **ACE-IT**) program

Gain high-school graduation credits and a head start towards completion of an apprenticeship program.

Check with your Career Counsellors or teachers to see what your school district has to offer.

[www.itabc.ca](http://www.itabc.ca)



No matter what career you choose safety matters!

Visit [www.worksafebc.com](http://www.worksafebc.com) to understand your health and safety rights and responsibilities in the workplace.

# Gravity Car





# Wind Turbine



# GEAR BOTS







TEAM BC – NATIONALS, 2019 HALIFAX, NOVA SCOTIA







# Questions?

**Email: [info@skillscanada.bc.ca](mailto:info@skillscanada.bc.ca)**



**FOR FURTHER INFORMATION CHECK OUT:**

[WWW.SKILLSCANADA.BC.CA](http://WWW.SKILLSCANADA.BC.CA)

Contact us:

[jmaxwell@skillscanada.bc.ca](mailto:jmaxwell@skillscanada.bc.ca)

[mskelly@skillscanada.bc.ca](mailto:mskelly@skillscanada.bc.ca)







Thank You!