

2010 OTSC CONTEST DESCRIPTIONS

Contest	Contest Description
2D Character Animation	Teams of two students will be challenged to tell a story given a theme and soundtrack. The contest will focus on the competitors' abilities to put forth their idea on paper through scripting and storyboarding. It will also challenge their skills in project development by creating, animating, and assembling all the pieces of their movie for presentation within the given time period.
3D Character Animation	To evaluate each teams ability, skill and knowledge of animation as they prepare for employment in the animation field. Character Animation deals with the creation and animation of characters used in storytelling. The main characters should be the focus of the production. There are no limitations as to the realism of the characters however, the ability of characters to express emotion is a major component of the competition . A good animated character is one that creates empathy. Upon completion of the animation, teams will present their storyboard, model sheets and animation to the judges in a structured presentation.
Aesthetics	The Aesthetics contest is designed to test and recognize competitor's ability to provide quality aesthetic services within industry standard time frames. Components of the competition may include a facial treatment, foot care, hand care, hair removal as well as makeup application.
Aircraft Maintenance	Today's modern Aircraft Maintenance Technicians require significant knowledge and skills in order to maintain the safety of all types of aircraft. Competitors will demonstrate a sampling of the knowledge and skills required to maintain and troubleshoot aircraft, aircraft engines and aircraft systems.
Architectural Technology and Design	This contest will evaluate each competitor's proficiency in the field of Architectural Design & Drafting using CAD software and to recognize outstanding students for excellence and professionalism in their field.
Auto Collision Repair	This contest will include rocker panel repair, bumper repair, welding, measurement, and vehicle preparation. The application of auto body collision repair skills will be utilized in all of the above areas. A written theoretical examination will also be included.
Auto Painting	This contest will assess the competitor's skill set in performing various auto body preparation and painting technique tasks.
Auto Service Technology	To provide an environment that students enrolled in automotive programs can test their knowledge and skills against themselves and others in Ontario. This contest will also provide an environment that competitors can learn in and enhance their skills.
Baking	The Baking contest is designed to evaluate each competitor's preparation for employment and to recognize outstanding students for excellence and professionalism in commercial baking.
Brick Masonry	Competitors will show their skill and knowledge of how to build a masonry project. They will be given a set of drawings from which they must correctly interpret the layout and design of the project and then build it using the materials provided. The project may be all brick or a combination of brick, block and stone. The contest challenge must be completed within a given time period or points will be deducted.
Cabinetmaking	The cabinetmakers will be challenged by hand tools and machines in building a small piece of furniture or a cabinet. The students will also have a written test.
Carpentry - Individual	Competitors will safely and efficiently organize, fabricate and build a structure using plans and materials provided within the time allowed.
Carpentry - Team	To test and evaluate each team's ability to read, understand, and construct the project provided construction theory and job interview skills also tested
CNC - Computer Numerical Control	Assess the students CNC Programming and Machining skills and trade knowledge through practical testing
Computer Aided Manufacturing	To test the skill and knowledge of each student in the area of computer numerical programming using a computer aided manufacturing software application package. This competition will be focused on creating a program for a vertical spindle milling machine.
Culinary Arts	To evaluate through competition, the professional culinary skill and talent of the next generation of Chefs by having them cook and display hot and cold dishes in accordance with established trade rules. Presenting an exciting view into Culinary Arts and to showcase new culinary trends to the visiting public.

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Desktop Publishing	To evaluate competitors' ability and understanding of electronic publishing related tasks and information.
Electrical Wiring	Competitors will be expected to complete specific tasks relating to electrical wiring in the Industrial, Commercial and Institution sector from written instructions and electrical schematic diagrams provided.
Electronics	To evaluate each competitors skills and to recognize outstanding competitors for excellence and professionalism in the field of Electronics Technology
Fashion Design	Students will be able to practice a Career in the Fashion Industry as a Fashion Designer by completing instructions set out by a scope that instructs the student to demonstrate their Design Skills by using career areas such as illustration, apparel drafting, clothing construction and communication.
Floristry	To give floral students the opportunity to demonstrate technical and creative skills valued in the floral industry. Designs include bridal, and themed arrangements.
Geographic Information Systems	Competitors will use skills in the area of G.I.S. to collect, display and analyze geographical information in order to solve real-world problems.
Graphic Design	Competitors are to design and produce a series of material to promote a theme provided by Skills Canada - Ontario. All work is to be completed prior to the competition (not on-site). At the competition, competitors will present their solutions and explain their rationale for their concept and design.
Hairstyling	This contest will allow young stylists to demonstrate their technical skills and creative ability. The areas to be tested will represent fashion conscience styles found in up-scale salons.
Heating System Technician	Provides Competitors with the opportunity to demonstrate through both practical and theoretical application their skills and knowledge in the industry relevant to-equipment operation and problem solving in relation to heating systems-fundamentals of gas heating systems- basic intermediary skills relevant to electricity, pressure, mechanics and combustion of gas heating systems-knowledge of controls, tools, testers used in the industry-Awareness and application of applicable Health and Safety regulations
Heavy Equipment Service	This contest will assess competitor's skills in correctly inspecting, repairing and adjusting detached and/or mounted heavy duty equipment components, as compared to industry standards.
Home & Team Building	Teams will test their technical skills in various residential construction trades.
Industrial Mechanic Millwright	This contest will test the skills and knowledge of each competitor in the areas of hydraulics, pneumatics, metal layout, machining and fabrication as well as the assembly and alignment of mechanical power transmissions and components.
Industrial Wiring	To evaluate the competitors' abilities and skills in wiring motor controls and developing a programmable logic controller program to operate devices and equipment according to specifications given.
IT - Office Software Applications	To evaluate competitors' understanding and ability in document processing, spreadsheets, presentation and database software as well as integration
IT and Network Support	The IT and Network Support competition engages competitors in the skills required to setup and run a network suitable for a small to medium sized business. Competitors are required to manage and perform system configuration on Windows and Linux servers, and build a network using Cisco networking hardware.
Job Interview	Competitors will apply to a position by submitting a targeted resume and cover letter. They will then be interviewed for the position with questions about their skills, knowledge, education and experience.
Job Skill Demonstration	Competitors will demonstrate and explain an entry level skill used in the occupational area for which they are training (e.g. how to design a web page). The skill presented must reflect a technical contest area that is a component of the Canadian Skills Competition. Each competitor has up to 30 minutes for this Demo.
Landscape Gardening - Post	This contest covers the layout and construction of a small garden (approximately 144 square feet or less) by preparing and using materials such as landscape rocks, precast wall and

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Secondary	paving units, wood, landscape lighting, sand, composted mulch and plants.
Landscape Gardening - Secondary	Competitors will be tested in their practical knowledge of reading designs and building a garden. Components of this may include, create a wall(s) from precast paving units, laying paving stones, plant selection and placement of landscape rocks.
Mechanical CADD	To evaluate a contestant's knowledge of Mechanical Design and drafting standards by applying CAD software to solve typical Mechanical Engineering problems.
Mechatronics	To allow teams of two students to demonstrate their knowledge and skill level in automation. These skills will be judged on a practical Demo of abilities to complete a mechanical, electrical and pneumatic assembly of a Modular Production System (MPS), a model of a real product handling system from FESTO. After successful assembly of the machine, the team should create a PLC program according to the documented working sequence and commission it using the "RS LOGIX 500" programming software and "SLC 500s and MicroLogix" PLC from Allen-Bradley. The MPS should be assembled according to the drawings, wiring and pneumatic diagrams. The PLC program must be created according to the wiring (allocation list) and a given sequence of operations. The main working cycle must work, extra features such as correct homing sequence, safety features, manual modes may improve overall mark.
Photography	Digital photography is a skill that all emerging photographers will need to know and use. Through this contest, competitors will be tested on digital capturing, digital manipulation, digital output and the overall concept and design of photography.
Plumbing	To assess the competitors knowledge and skills of a plumbing system with high regard to the aspects of quality, workmanship and accuracy of work, within a specified time frame
Precision Machining	Competitors will be given drawings for a mill piece and a lathe piece. They will have a set amount of time to machine the part to completion. A theory test will also be involved for the secondary level.
Prepared Speech	The Prepared Speech contest allows competitors to demonstrate their ability to prepare and present clearly and effectively their thoughts relating to a theme established in advance by the technical committee. Speeches are to be 5 to 7 minutes in length. Competitors will be evaluated on content, ability to convey their message and overall delivery.
Refrigeration	Competitors will be required to troubleshoot a simple refrigeration and/or air conditioning system. Knowledge of the basics of refrigeration, special mechanical and electrical components is a major part of the contest.
Restaurant Service	The purpose of the Restaurant Service competition is to evaluate the competitors applied skills and knowledge in the performance of restaurant service duties. It will also serve to expose the competitor to the demands of both the Front of the House (FoH) and the Back of the House (BoH) and the importance of their position within the establishment. The competitor will be provided with an opportunity to develop a true appreciation for the skills necessary to be a server.
Robotics	Teams of competitors design, build, operate and maintain a radio-controlled robot capable of completing the contest tasks as described in the scope. Interested schools are asked to please contact: Bob Tone by email bobtone@rogers.com.
Small Powered Equipment	To test the skill and knowledge of competitors in the air and liquid cooled engine field and to help prepare each student for employment in the industry.
Truck and Coach	This contest is intended to identify, acknowledge and award excellence in the areas of theory and practical knowledge and abilities in the Truck and Coach field.
TV & Video Production	Teams of two competitors are required to produce a 2-3 minute informational/promotional video on the theme stated at the beginning of the contest. Competitors must decide on the best use of their time to plan, script, shoot and edit the final production. All aspects of the production assignment are completed on-site by competitors. Skills and knowledge to be tested include: production planning and design, camera work, audio use, editing, story telling, teamwork, time management and problem solving.

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<p>Virtual Robotics</p>	<p>The Skills Canada - Ontario Virtual Robotics Challenge will involve competitors in the following tasks: a) design a robot in the computer using already built inventor parts, or using the Fishertechnik Designer software which includes all spare parts to design in 3D, b) program the Virtual Robot and run a simulation of the robot action in the computer using Microsoft Robotics Studio, c) build a real model of the robot you designed using the parts provided and use the 3D Simulation Environment and d) transfer the code to the robot and run the real model in a competition.</p>
<p>Web Site Development</p>	<p>Competitors participating in the Internet Web Page Design contest will be given the opportunity to demonstrate their creativity and professionalism in the design of an informative web site. Participants will use their technical skills, knowledge and understanding of web page and web site design to display their expertise as well to demonstrate their ability to create a comprehensive design. Competitors will be tested on their overall knowledge of web page, web site design as well as their technical and presentation skills.</p>
<p>Welding</p>	<p>This contest is designed to test and evaluate the various safety-oriented welding and fitting skills of Ontario's youth. In addition, the print reading and welding symbols interpretation will also be assessed.</p>
<p>Workplace Safety</p>	<p>The main focus of the Workplace Safety contest is to promote health and safety by assessing the students' knowledge of and participation in workplace health and safety activities. Participants will be evaluated on knowledge of health and safety principles (written exam), ability to identify and assess workplace hazards and to recommend corrective action (Hazard identification using mock work-site settings) and the ability to communicate health and safety information to others (presentation) Example: Each participant will inspect a mock workplace to identify hazards. The hazards may include work process, housekeeping, WHMIS, ergonomics, safety equipment, tools, machinery and electrical hazards.</p>

Please ensure that student competitors and their teacher advisors **review the scope** document for their specific contest well in advance of attending the OTSC.