

TECH AT ECI

A GUIDE TO WHAT WE OFFER

NEW PROGRAM AT ECI

- ECI is proud to announce that the Ministry of Education has started the new Transportation SHSM at our facility.
- What is a SHSM?

SPECIALIST HIGH SKILLS MAJOR PROGRAM (SHSM)

- Specialist High Skills Majors let students focus on a career path that matches their skills and interests while meeting the requirements of the Ontario Secondary School Diploma (OSSD).
- complete a specific bundle of 8-10 courses in the student's selected field
- earn valuable industry certifications including first aid and CPR qualifications
- gain important skills on the job through cooperative education placements.
- **Who are they for?**
- Grade 11 and 12 students who are:
- heading for apprenticeship training, college, university or the workplace
- wanting to identify, explore and refine their career goals and make informed choices about their next steps after secondary school.

NEW TO CONSTRUCTION THIS YEAR

ELECTRICAL

- **Grade 11 Construction Technology, Electrical (College Preparation – TCE 3C1)**
- **Prerequisite: None**
- **Recommended:** Grade 10 Construction Engineering Technology (TCJ2O1 Open)
- This course focuses on the development of knowledge and skills related to residential electrical construction. Students will gain hands-on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning electrical construction projects; create and interpret working drawings and sections; and learn how the Ontario Electrical Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology and will explore career opportunities in the field.

PLUMBING

- **Grade 11 Construction Technology, Plumbing (College Preparation – TCP 3E1)**
- **Prerequisite: None**
- **Recommended:** Grade 10 Construction Engineering Technology (TCJ2O1 Open)
- This course enables students to develop technical knowledge and skills related to plumbing for residential construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop plumbing projects. Students will also develop an awareness of environmental and societal issues related to plumbing technology, and will explore postsecondary and career opportunities in the field.



AUTOMOTIVE COURSES

- These course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues, and will explore secondary and postsecondary pathways leading to careers in the transportation industry.
- Courses are available in grades 10, 11 and 12

CONSTRUCTION COURSES

- Construction technology has always played a central role in society. It is a multifaceted industry in which projects can result in products, systems, processes, or services and encompass various aspects of production, repair, and maintenance. In construction technology courses, students will learn about designing, constructing, and maintaining a variety of buildings and structures, and will gain experience with the tools, equipment, and processes commonly used in the field. Students will also learn about health and safety standards in the construction industry, building codes and regulations, and employment opportunities and careers in the various sectors of the industry, including electricity, carpentry, masonry, heating and cooling, and plumbing.
- Courses are available in grades 10, 11 and 12



WHAT WE OFFER BY GRADE

GRADE 9 & 10

- Exploring Technologies - Grade 9 - Open - TIJ101
- Technological Design - Grade 10, Open - TDJ201
- Manufacturing Technology - Grade 10, Open - TMJ201
- Construction Engineering Technology - Grade 10, Open - TCJ201
- Communication Technology - Grade 10, Open - TGJ201
- Transportation Technology – Grade 10 – TTJ201

GRADE 11 & 12

- Construction Technology – Grade 12, College Preparation – TCJ4C1
- Construction Technology (2 Credits) - Grade 11/12 College Preparation - TCJ3C2/TCJ4C2
- Construction Engineering Technology - Grade 11, College Preparation - TCJ3C1
- Interactive New Media & Animation - Grade 11, University/College Preparation - TGI3M1
- Transportation Technology – Grade 11 – College Preparation – TTJ3C1
- Transportation Technology – Grade 12 – College Preparation – TTJ4C1

**PLEASE SEE STUDENT
SERVICES FOR MORE
INFORMATION**