

WELDING STUDIES

Program: WELS
Credential: Certificate
Delivery: Part-time
Duration: 364 Hours
Effective: Fall 2025
Location: Midland, Owen Sound

Description

This program provides students with the theoretical and practical training to seek entry level employment. At the completion of the program, students will be eligible to test for the Canadian Welding Bureau (CWB) structural qualifications in the flat position. It is expected that most of the graduates will be prepared to enter the workforce as a novice welder or shop assistant following the successful completion of this program.

Students will be exposed to topics including welding safety, blueprint reading and sketching, shielded metal arc welding, gas metal arc welding and gas tungsten arc welding.

Career Opportunities

Graduates may find a range of entry level occupations in the welding field, including manufacturing and fabricating, automotive and heavy equipment production, automation, and construction.

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

1. perform work competently and in compliance with the Occupational Health and Safety Act;
2. interpret engineering drawings and blueprints and produce basic graphics as required by industry;
3. recognize and understand use of welding symbols;
4. perform basic welding in one position using the Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) processes;
5. perform basic cutting and brazing using oxy-acetylene equipment.

Admission Requirements

OSSD or equivalent with

- Grade 12 English (C or U)

Mature students, non-secondary school applicants (19 years or older), and home school applicants may also be considered for admission. Eligibility may be met by applicants who have taken equivalent courses, upgrading, completed their GED, and equivalency testing. For complete details refer to: www.georgiancollege.ca/admissions/academic-regulations/ (<https://www.georgiancollege.ca/admissions/academic-regulations/>)

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may also be considered for admission; refer to the Credit for Prior Learning website for details:

www.georgiancollege.ca/admissions/credit-transfer/ (<https://www.georgiancollege.ca/admissions/credit-transfer/>)

Graduation Requirements

6 Program Courses

Graduation Eligibility

The passing weighted average to graduate is 60%. Additionally, a student must attain a minimum of 50% or a letter grade of P (Pass) or S (Satisfactory) in each course.

Program Tracking

Program Courses		Hours
WETC 1000	Manufacturing Trade Safety	42
WETC 1001	Blueprint Reading for the Trades	42
WETC 1003	Welding and Cutting Processes	56
WETC 1004	Shielded Metal Arc Welding 1	98
WETC 1007	Gas Metal Arc Welding	84
WETC 1008	Gas Tungsten Arc Welding	42
Hours		364
Total Hours		364

Graduation Window

Students registered in part-time studies programs must maintain continuous registration in order to complete the program according to the curriculum in place at the time they were admitted. Students who do not remain continuously registered must be readmitted to the program and follow the new curriculum.

Disclaimer: *The information in this document is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs.*

Program outlines may be subject to change in response to emerging situations, in order to facilitate student achievement of the learning outcomes required for graduation. Components such as courses, progression, coop work terms, placements, internships and other requirements may be delivered differently than published.