

OYAP: WELDING



ONTARIO YOUTH APPRENTICESHIP PROGRAM:

Students will be integrated with regular college apprentices to earn their Level 1 Apprenticeship. This includes alternate delivery in TEAMS and in-person shop time.

CAMPUS: Cornwall

SEATS: Students from surrounding high schools will participate

DURATION: 10 weeks from Tuesday October 13th to Friday December 18th

SCHEDULE:

Monday:	230-430	Weld 1113	Alt Delivery
	530-730	Weld 1115	Alt Delivery
	730-930	Weld 1116	M1630 Shop class
Tuesday:	100-400	Weld 1115	M1630 Shop class
	430-730	Weld 1114	Alt Delivery
Wednesday:	130-430	Weld 1115	M1630 Shop class
	530-730	Weld 1116	M1630 Shop class
Thursday:	1130-230	Weld 1117	M1630 Shop class
	330-430	Weld 1115	Alt Delivery
	530-730	Weld 1113	Alt Delivery
Friday:	830-1130	Weld 1111	Alt Delivery
	1230-230	Weld 1112	Alt Delivery
	230-330	Weld 1116	Alt Delivery

CREDITS EARNED:

- MTCU LEVEL 1 APPRENTICESHIP – CODE: 456A
- 3 SECONDARY SCHOOL MINISTRY DUAL CREDITS – CODE: TLA4Y
- 7 COLLEGE CREDITS – TOTAL OF 290 HOURS

COLLEGE CREDITS INCLUDE:

WELD 1111 – TRADE PRACTICES (30 hours)

This course focuses on safe material handling, workplace hazards, and various pieces of legislation governing working conditions in the welding and fabrication trade. Students are also introduced to measuring, hand, and power tools and to the basic arithmetic, calculations and systems of measurement routinely used in the workplace.

WELD 1112 – APPLIED BLUEPRINT READING (40 hours)

This course content addresses basic drawing, sketching, and drafting and introduces layout and fitting in the welding and fabrication trade. Joint types, welding positions, and welding symbols are discussed and applied.

WELD 1113 – WELDING THEORY (40 hours)

This course focuses on safe material handling, workplace hazards, and various pieces of legislation governing working conditions in the welding and fabrication trade. Students are also introduced to measuring, hand and power tools, and to the basic arithmetic, calculations, and systems of measurement routinely used in the workplace.

WELD 1114 – MATERIALS AND PROCESS QUALITY (30 hours)

This course content introduces students to distortion, metallurgy, inspection and testing, and weld quality. The fundamental causes of distortion and the inherent effects and corrective measures are discussed. Students are also introduced to the characteristics of metals and alloys and the effects of welding heat. Destructive and non-destructive testing methods are reviewed, and weld quality, welding discontinuity, and welding procedures are explained.

WELD 1115 – SHIELDED METAL ARC WELDING PRACTICAL I (70 hours)

In this shop course, students safely demonstrate the equipment set-up and the processes for fillet and groove welding of mild steel using the Shielded Metal Arc Welding (SMAW) process. Post-weld operations are performed as are routine and required equipment maintenance procedures.

WELD 1116 – GAS SHIELDED SEMI-AUTOMATIC WELDING PRACTICAL I (50 hours)

In this shop course, student's safety demonstrate the equipment set-up, selection of consumables, and the processes for fillet and groove welding of mild steel using the Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) processes. Post-weld operations are performed as are routine and required equipment maintenance procedures.

WELD 1117 - THERMAL CUTTING (30 hours)

This In this course, students set up and operate manual oxy-fuel cutting equipment, plasma arc cutting equipment and air carbon arc gouging equipment in accordance with government safety regulations. Course content highlights safety-related concepts, equipment features and maintenance, cutting processes, and the correction of common cutting faults.

All students must have steel-toe safety boots to participate in this program.

ORIENTATION: Thursday October 8th @ 10:30 a.m.

IMPORTANT DATES: FALL SEMESTER

Oct. 13 th	First day of classes @ SLC (refer to your timetable)
TBA	Last day to withdraw without academic penalty
Dec. 18 th	Classes complete, fall semester ends @ SLC

PA DAYS: During scheduled board PA days, St. Lawrence College classes are still in session. You are expected to attend if you have an SLC class scheduled on this day.

SLC.ME – APPLYING TO GRADUATE:

Students in Level 1 Apprenticeship programs must apply to graduate through SLC.me after successful completion of their college courses. If students apply to graduate they will receive a certificate from St. Lawrence College in the mail (*please ensure your address is current and correct with the Dual Credit/PASS office*). When students complete their Level 3, students can apply to graduate and attend the convocation ceremony.

FOR MORE INFORMATION:

Website: stlawrencecollege.ca/dualcredit

Email us at: DualCredit@sl.on.ca

IN PARTNERSHIP WITH:



SCWI/PASS / St. Lawrence College /Algonquin Lakeshore Catholic District School Board / Catholic District School Board of Eastern Ontario / Limestone District School Board / Upper Canada District School Board