

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



**SAULT
COLLEGE**

COURSE OUTLINE

COURSE TITLE: Electrical Inspection

CODE NO. : HIC100/OEL535 **SEMESTER:** W11

PROGRAM: Home Inspection Certificate

AUTHOR: Laurie Poirier

DATE: Fall 2010 **PREVIOUS OUTLINE DATED:** N/A

APPROVED: "Laurie Poirier" Fall 2010

	CHAIR	DATE
TOTAL CREDITS: 3		
PREREQUISITE(S): HIC101 or OEL577 - Heating Inspection I		
HOURS/WEEK: 45 hour course		

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For additional information, please contact Laurie Poirier, Chair
School of Continuing Education
(705) 759-2554, Ext. 2665

I. COURSE DESCRIPTION:

This subject prepares students to inspect the performance of the following components of electrical systems within residential buildings: service drops, grounding systems, service panels, wiring systems, devices, and fixtures.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. Importance of Proper Protection
Students will learn basic electrical wiring and the importance of proper protection.
2. Service Entrance Requirements
Students will learn service entrance requirements and inspection safety on the roof.
3. Identification of Key Panel Defects
Students will learn identification of key panels defects, bonding, grounding and panel placement requirements.
4. Understanding Circuit Wiring
Students will understand branch circuit wiring and defects.
5. Identification of unapproved wiring
Identification of old unapproved wiring and installation practices.
6. Identification of various fixtures
Identify deferent styles of lights, fixtures, switches, outlets and junction boxes.

III. TOPICS:

1. Basics of electrical
2. Household circuits and inspection of exposed wiring
3. Fuses, breakers and the panel defect recognition
4. Common spots to look
5. Service entrance safety and inspection of mast.
6. System grounding and importance of bonding with gas lines.

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Electrical Inspection – Carson Dunlop and Associates

V. EVALUATION PROCESS/GRADING SYSTEM:

- Quizzes are worth 20% of your final mark
 - Each individual Quiz is worth 5%.
 - There are four quizzes.
 - We will delete the lowest scoring of the four quizzes from your grade.
- The midterm test is worth 25% of your final mark
- Field exercise/assignments are worth 15% of your mark
- The final test is worth 40% of the final mark

The following semester grades will be assigned to students:

Grade	<u>Definition</u>	<i>Grade Point Equivalent</i>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	
W	Student has withdrawn from the course without academic penalty.	

VI. SPECIAL NOTES:**Attendance:**

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

VII. COURSE OUTLINE ADDENDUM:

The provisions contained in the addendum located on the portal form part of this course outline.