

I. COURSE DESCRIPTION:

Students will build on the defect recognition skills developed in Home Inspection II and use these skills to complete comprehensive practical exercises. Case studies will be used to enhance learning.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. ***Apply knowledge of residential home construction, related trades and building codes to recognizing deficiencies within readily accessible components of the following systems:***

1.1 Electrical System

Potential Elements of the Performance:

- ***Inspect:***
 1. service drop
 2. service entrance conductors, cables, and raceways
 3. service equipment and main disconnects
 4. service grounding
 5. interior components of service panels and sub panels
 6. conductors
 7. over current protection devices
 8. a *representative number of installed* lighting fixtures, switches, and receptacles
 9. ground fault circuit interrupters (if appropriate)
- ***Describe:***
 1. amperage and voltage rating of the service
 2. location of main disconnect(s) and sub panels
 3. *wiring methods*
- ***Report:***
 1. on the absence of smoke detectors
 2. on the absence of carbon monoxide detectors (if applicable)
 3. on the presence of arc fault circuit interrupters

1.2 Heating System

Potential Elements of the Performance:

- ***Inspect:***
 1. *visually accessible* components of *installed* heating equipment
 2. vent systems, flues, and chimneys
 3. fuel storage and fuel distribution *systems*
- ***Describe:***
 1. energy source(s)
 2. heating method(s) by distinguishing characteristics
 3. chimney(s) and/or venting material(s)

- **Report** combustion air sources/make up air and exhaust venting methods.

1.3 ***Air Conditioning System***

Potential Elements of the Performance:

- **Inspect** the permanently *installed* central air conditioning equipment.
- **Describe:**
 1. the energy source
 2. the cooling method by its distinguishing characteristics

1.4 ***Interior***

Potential Elements of the Performance:

- **Inspect:**
 1. walls, ceilings, and floors
 2. steps, stairways, and railings
 3. countertops and *installed* cabinets
 4. a *representative number* of doors and windows
 5. walls, doors and ceilings separating the habitable spaces and the garage

1.5 ***Mechanical and natural ventilation***

Potential Elements of the Performance:

- **Inspect:**
 1. ventilation of attics and foundation areas
 2. mechanical ventilation *systems*
 3. ventilation systems in rooms where moisture is generated such as kitchen, bathrooms, laundry rooms
- **Describe:**
 1. ventilation of attics and foundation areas
 2. mechanical ventilation *systems*
 3. ventilation systems in rooms where moisture is generated such as kitchen, bathrooms, laundry rooms

2. ***Review and examine a variety of case studies to refine defect recognition knowledge and skills, and reporting techniques.***

Potential Elements of the Performance:

- A review of instructor selected case studies

3. ***Complete a home inspection portfolio (ongoing)***

III. TOPICS:

1. Electrical system inspection.
2. Heating system inspection.
3. Air conditioning system inspection.
4. Interior inspection.
5. Mechanical and natural ventilation inspection.
6. Case studies
7. Portfolio

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

- The Complete Book of Home Inspection, 4th Edition, Norman Becker, McGraw-Hill 2011
- Inspecting a House, Rex Cauldwell, Taunton Press 2001
(all the above to be available through the college bookstore in late fall)
- Laptop computer and storage device / CD / DVD, HMI205 portfolio, camera
- Process of inspection and list of deficiencies to be distributed by instructor.

V. EVALUATION PROCESS/GRADING SYSTEM:

Quizzes and tests	- 30 %
Labs / practical assignments	- 40 %
Portfolio / DVD	- 20 %
Attendance	- 10 %

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%	
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00
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.