

I. COURSE DESCRIPTION:

Plumbing Systems II provides the apprentice with further theoretical knowledge of various requirements needed in the construction of Plumbing systems.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. Take measurements and lay out holes for drilling, notching and sleeving
Potential Elements of the Performance:
 - mark holes in structural and non-structural members buildings as per the Ontario Building Code. (O.B.C.)
 - use construction drawings to ascertain the correct location and size of sleeves
2. Use the appropriate tables to size and design stack elevations and drain plans.
Potential Elements of the Performance:
 - identify and use the appropriate tables for sizing drainage piping
 - identify and use the appropriate tables for sizing vent piping
 - identify the different type of vent and drainage systems
3. Describe the difference between the types of interceptors.
Potential Elements of the Performance:
 - Identify and size grease interceptors and the appropriate drain and vent requirements
 - Identify and size oil interceptors and the appropriate drain and vent requirements
 - Identify and size sediment interceptors and the appropriate drain and vent requirements
4. Define a sewage ejector and a sump
Potential Elements of the Performance:
 - identify code requirements for a sewage sump and ejector
 - identify code requirements for a storm sump and pump

5. Recognize various valves and their purpose in piping systems.
Potential Elements of the Performance:
- identify the different valve types
 - identify different materials from which valves are manufactured
 - identify the different parts of valves
 - locate valves as per requirements in the various codes which affect their installation

III. TOPICS:

1. Drains and vents
2. Drilling and notching
3. Interceptors
4. Valves
5. Fixtures
6. Ejectors

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Level II workbook and OBC Part 7

V. EVALUATION PROCESS/GRADING SYSTEM:

The final grade for the course will be established from the average of seven possible weekly tests.

The following semester grades will be assigned to students:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
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:

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Special Needs office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Retention of Course Outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. Students who engage in academic dishonesty will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

VII. PRIOR LEARNING ASSESSMENT:

Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question.