

Course Outline**PLB 119B TRADE DOCUMENTATION LEVEL I****Course ID:** 023094**Academic Year:** 2025/26**Course Description:**

The ability to identify and use various drafting tools to produce a quality construction drawing will be measured. Personal relationships, language, the ability to follow instructions and communication with others will be stressed.

Pre-Requisites: None**Category:** Vocational**Co-Requisites:** None**Course Credits:** 2.00

Special Conditions: Students taking this course would normally be registered with the Ministry of Training Colleges and Universities as well as the Ontario College of Trades for a Plumbing Apprenticeship Program.

Academic Level: Credit (Apprenticeship)

Instructional Hours:	Classroom Instruction	12
	Laboratory/Workshops	12
	Other	0
	Total Hours	24

Academic Department:

Windsor: Apprentice
Chair: Lido Zuccato
Chatham:
Chair:

Revised By: Sue McLelland**Last Revision:** 2016/03/23

Required Tools, Equipment, and Learning Resources:**none****Students are told to purchase several drafting instruments prior to course beginning****Course Learning Outcomes (CLO):****Upon successful completion of this course, the student will be able to:
(EKS = Embedded Knowledge and Skills)**

- **Identify and Use Various Drafting Instruments**
Identify and use the following basic drafting instruments, including:
 - architect's and engineer's scale in both SI and Imperial units
 - set squares
 - T-squares
 - pencils
 - erasers & eraser shields (CLO #1)**EKS:**
 - Print legible numbers and letters and upper case letters.

- **Identify and Draw Various Projection Drawings:**
Define the terms, "orthographic projection" and "isometric drawing".
Identify three principle views in an orthographic projection.
Draw single pipe line drawings to scale in orthographic projection fully dimensioned.
Explain why isometric drawings and sketches are used in the plumbing industry.
Define isometric drawing principles.
Produce an isometric drawing of a single pipe line drawing given the corresponding three views by hand. **(CLO #2)**
EKS:
 - **Seem to be covering a lot of content for one CLO**

- **Identify and Interpret Construction Drawings:**
Identify the standard types of construction trade drawings and prints.
Identify the individual drawings produced for the following trades, including:
 - architectural
 - structural
 - mechanical
 - electricalList the trades that use each of the following drawings:
 - architectural
 - structural
 - mechanical
 - electricalIdentify and apply the basic symbols used in each of the drawings for a planned plumbing installation:
 - architectural
 - structural
 - mechanical
 - electricalDefine the term, "shop drawing".
List four purposes of shop drawings.
Identify the purpose of title blocks on drawings, containing the following information:
 - drawing number
 - drawing date
 - name of company or firm
 - signatures and approvals
 - scales
 - revisionsIdentify and draw the types of lines used in single and multi-view drawings to indicate:
 - objects lines
 - center lines
 - extension lines

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- dimension lines
- hidden lines
- cutting plane lines
- break lines
- projection lines
- sections lines (CLO #3)

— Seem to be covering a lot of content for one CLO

EKS:

- Demonstrate Effective Interpersonal Relations:
Use effective listening techniques.
Use language appropriate for the workplace.
Use of common trade terms and definitions correctly.
Explain the typical chain of command on a work site.
Explain trade-related problems, using verbal and non-verbal communications.
Identify and explain alternative solutions.
Seek and obtain approvals from appropriate personnel.
Verbally explain maintenance and warranty programs (CLO #4)
EKS:
- Receive and React to Instructions:
Listen to the instructions given.
Identify the key points given in the instructions.
Ask for clarification about any points which are not understood.
Repeat the instructions accurately.
Determine the feasibility and safety of the instructions and task assigned.
Identify the key tasks required by the instructions, including:
 - gathering the materials required
 - gathering the tools required
 - performing the required workCommunicate with others to ensure the task is completed in a timely manner and in conformity with company and/or customer standards, specifications, and codes.
Seek clarification, if and when required. (CLO #5)
EKS:

-----Note: CLO for "Sleeving", required by the Ministry, is absent on this course outline from the college-----

Teaching/Learning Activities:

Activities may include, but are not limited to:

Lecture, Lab and Videos

Assessment:**Standard/Traditional Delivery**

Overall Assessment Notes: Final Assessment
Practical Exercises
Theory Testing

• Final Assessment		10.00%
Frequency: None		
Description: None		
• Practical Exercises		50.00%
Frequency: None		
Description: None		
• Theory Testing		40.00%
Frequency: None		
Description: None		

This appears to be an error

Note: The assessment listed in this outline represents the planned assessment method for this course. Unanticipated conditions during the delivery of the course may necessitate changes to the planned assessment. Students will receive reasonable advance notice should any changes be necessary.

Grading:

A = 80 - 100%
B = 70 - 79%
C = 60 - 69%
F = Below 60%

Course Content:

Throughout this course various drafting tools will be demonstrated to assist the apprentice in producing a quality construction drawing. The apprentice will also learn the value of both verbal and written interpersonal & communication skills with co-workers, superiors and customers.

"Academic misconduct, including cheating of any form, will not be tolerated. Consequences may include, but are not limited to, a warning, a grade of "0" on the assignment/test/examination, or a failing grade in the course."

(Code of Students Rights and Responsibilities: Section 7.1.6)

All students and employees of this College have a right to study and work in an environment that is free from harassment and discrimination.

Accommodation Statement

The College will provide supports and services to all students with disabilities, both temporary and permanent, with valid supporting documentation. Interim accommodation requests will be received in good faith and can be provided pending receipt of medical documentation. Retroactive accommodations will be considered based on the unique circumstances of the individual matter. The College will give all Human Rights Code-related requests for accommodation meaningful consideration.

Procedure: The student is responsible to meet with a counsellor in Accessibility Services to discuss their functional limitations and accommodation needs and provide Accessibility Services with supporting documentation. Students are not required under the Ontario Human Rights Code to disclose their disability diagnosis (with the exception of Learning Disabilities) to receive accessibility supports and services and/or academic accommodations. Students are encouraged to meet with a counsellor prior to the start of a semester to provide information and arrange accommodations.