ANNOTATED BY: GREG ALLEN

Number:	S00025
Title:	**Trade Documentation-Level 1**
Duration:	24 Total Hours Theory: 12 Hours Practical: 12 Hours
Prerequisites:	None
Co-requisites:	S00021, S00022, S00023, S00024, S00025, S00026

Number:	S00025.1
Title:	**Identify and Use Various Drafting Instruments**
Duration:	6 Total Hours Theory: 3 Hour Practical: 3 Hour
Prerequisites:	None
Co-requisites:	S00024, S00025
Cross Reference to Training Standards: U5457, U5458, U5459, U5460, U5461, U5463, U5464	

General Learning Outcomes

Upon successful completion the apprentice is able to demonstrate the ability to identify and use various drafting instruments.

Learning Outcomes

Upon successful completion the apprentice is able to:

1.1 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

1.2 Print legible numbers and letters and upper case letters.

MATCHES CLO # 1 FROM COLLEGE COURSE OUTLINE

Number:	S00025.2
Title:	**Identify and Draw Various Projection Drawings**
Duration:	12 Total Hours Theory: 3 Hour Practical: 9 Hour
Prerequisites:	None
Co-requisites:	S00022, S00023, S00025
Cross Reference to Training Standards: U5457, U5458, U5459, U5460, U5461, U5463, U5464	

General Learning Outcomes

Upon successful completion the apprentice is able to demonstrate the ability to identify and draw various isometric and orthographic projection drawings.

Learning Outcomes

Upon successful completion the apprentice is able to:

2.1 Define the terms, "orthographic projection" and "isometric drawing".

2.2 Identify three principle views in an orthographic projection.

2.3 Draw single pipe line drawings to scale in orthographic projection fully dimensioned. *

2.4 Explain why isometric drawings and sketches are used in the plumbing industry.

2.5 Define isometric drawing principles.

2.6 Produce an isometric drawing of a single pipe line drawing given the corresponding three views by hand. *

→ MATCHES CLO #2 FROM College COURSE OUTLINE

* A LOT FOR ONE CLO.

Number:	S00025.3
Title:	**Identify and Interpret Construction Drawings**
Duration:	2 Total Hours Theory: 2 Hour Practical: 0 Hour
Prerequisites:	None
Co-requisites:	S00022, S00023, S00025

Cross Reference to Training Standards: U5457, U5458, U5459, U5460, U5461, U5463, U5464

NOT ENOUGH TIME!!

General Learning Outcomes

Upon successful completion the apprentice is able to demonstrate the ability to identify and interpret construction drawings.

MATCHES # CLO'S FROM COLLEGE

Learning Outcomes

Upon successful completion the apprentice is able to:

3.1 Identify the standard types of construction trade drawings and prints.

3.2 Identify the individual drawings produced for the following trades, including:

- architectural
- structural
- mechanical
- electrical

3.3 List the trades that use each of the following drawings:

- architectural
- structural
- mechanical
- electrical

3.4 Identify and apply the basic symbols used in each of the drawings for a planned plumbing installation:

- architectural
- structural
- mechanical
- electrical

3.5 Define the term, "shop drawing".

3.6 List four purposes of shop drawings.

3.7 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
- revisions

3.8 Identify and draw the types of lines used in single and multi-view drawings to indicate:

- objects lines
- center lines
- extension lines
- dimension lines
- hidden lines
- cutting plane lines
- break lines
- projection lines
- sections lines

Number:	S00025.4
Title:	**Sleeving** ← OMITTED ON COLLEGE COURSE OUTLINES.
Duration:	4 Total Hours Theory: 4 Hour Practical: 0 Hour
Prerequisites:	None
Co-requisites:	S00022, S00023, S00025
Cross Reference to Training Standards: U5455, U5457, U5458, U5460, U5461, U5465	

General Learning Outcomes

Upon successful completion the apprentice is able to demonstrate the ability to identify different types of sleeves, construction, materials, applications, installation, and sealing procedures.

Learning Outcomes

Upon successful completion the apprentice is able to:

4.1 State the purpose of sleeving.

4.2 List the different materials used for sleeves.

4.3 Identify the types of sleeves that must be filled prior to a concrete pour.

4.4 Define the term Building Information Modelling (BIM).

4.5 Identify various technologies used for sleeving and their applications.

Evaluation Structure		
Theory Testing	Practical Application Testing	Final Assessment
40%	50%	10%