

BASIC MATHEMATICS II

UNIT CODE: 0541 451 14A

TVET CDACC UNIT CODE: CON/ CU/ BLD/CC /03 /5 / MA

Relationship to Occupational Standards

This unit addresses the unit of competency: Apply Basic Mathematics II

Duration of Unit: 80 Hours

UNIT DESCRIPTION:

This unit describes the competencies required in applying basic mathematics. It involves performing trigonometry calculations, performing geometric calculations and applying linear graphs.

Summary of Learning Outcomes

S/NO	LEARNING OUTCOME	DURATION(HOURS)
1.	Perform Trigonometry calculations	30
2.	Perform geometric calculations	30
3.	Apply linear graphs	20
	TOTAL	80

Learning Outcomes, Content and Suggested Assessment Methods

2. Perform Trigonometry calculations	1.1 Trigonometric calculations 1.2 Trigonometric ratios 1.3 Trigonometric Calculations	• Written assessments • Assignments • Supervised exercises
3. Perform geometric calculations	2.1 Geometrical figures 2.2 Areas of figures	• Written tests • Assignments • Supervised exercises

	2.3 Apply Pythagoras' theorem	
4. Apply linear graphs	3.1 Data set identification 3.2 Scales in graphs 3.3 Axes labeling 3.4 Linear graph plotting 3.5 Distance against time 3.6 Temperature against time 3.7 Velocity against time 3.8 Graph analysis	• Written assessments • Assignments • Supervised exercises

Suggested Delivery Methods

- Practical
- Projects
- Group discussion
- Direct instruction

Recommended Resources for 25 trainees

S/No.	Category/Item	Description/ Specifications	Quantity	Recommended Ratio (Item: Trainee)
A	Learning Materials			
1.	Scientific Calculators	Casio FX-82MS	25	1:1
2.	Rulers	30 CM,15 CM	25	1:1
3.	Pencils	HB, H,2H	25	1:1
4.	Erasers	Staedtler	25	1:1
5.	Charts	with presentations	25	1:1

		of data		
6.	Graph books	A4, A3	25	1:1