MEASUREMENT OF WORKS AND COST ESTIMATION

UNIT CODE: CON/CU/CET/CC/06/6/A

Relationship to Occupational Standards

This unit addresses the unit of competency: Perform Measurement of Works and Cost Estimation

Duration of Unit: 80 Hours

Unit Description

This unit describes competencies required to perform measurement of works and cost estimation. It involves preparing tender documents, taking off quantities, working up dimensions and abstracting measured quantities

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Summary of Learning Outcomes

- 1. Prepare tender documents
- 2. Take off quantities
- 3. Work up dimensions
- 4. Abstract measured quantities

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content 00	Suggested Assessment Methods
1. Prepare tender documents	 Preparation of working drawings Work specifications Bill of quantities Preparation of schedule of rates Preparation of conditions of contract Forms of agreement Forms of tender 	 Written tests Oral Practical/Projects
2. Take off quantities	 Principles of measurement Standard methods of measurement/CESMM Preparation of dimension sheet/paper 	 Written tests Oral Practical/Projects

3. Work up	 Preparation of quantities checklist Computing building/civil works quantities Booking of dimensions Booked items description Timesing of dimensions 	• Written tests
dimensions	• Squaring of booked dimensions	OralPractical/Projects
4. Abstract measured quantities	 Abstracting sheet Preparation of abstracting sheet Transfer of booked quantities Running through dimensions Symbols used in running through dimensions 	 Written tests Oral Practical/Projects
 Suggested Methods of Ins Demonstration by t Practical work by the Demonstration wide 	rainee	

Suggested Methods of Instruction

- Demonstration by trainer
- Practical work by trainee
- Demonstration videos
- Projects
- Group discussions

Recommended Resources

- Computers •
- Office equipment
- Calculators
- Scale rule
- Computer software
- CESSM/SMM
- Stationery
- Dust coat •
- First aid kit •

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