EXECUTE BUILDING SUPERSTRUCTURE WORKS

UNIT CODE: CON/OS/BUT/CR/03/5/A

UNIT DESCRIPTION:

This Unit describes the competencies required to execute superstructure works. It involves setting out and constructing superstructure walls and columns, setting out and casting superstructure beams and suspended slabs, and constructing stair structure.

ELEMENTS AND PERFORMANCE CRITERIA

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	4.5 Concrete is casted according to Engineer's specification
	4.6 Curing is done as per the building standards
5. Cast suspended slab	5.1 Reinforcement bars are positioned as per structural design
and beams	drawings
	5.2 <i>Concrete materials</i> are mixed as per design ratio
	requirement.
	5.3 Mixed concrete is placed and compacted as per construction
	regulations
	5.4 Concrete is cured as per the construction regulations

RANGE

This section provides work environment and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Va	riable	Range
1.	Method of setting out include but are not limited to:	 Grabbing Burning Dozing Hand clearing
2.	Tools for setting out include but are not limited to:	 Building line Hammers Pegs Spirit level Tape measure Panga lime
3.	setting out method include but are not limited to:	 3-4-5 Mechanical method Builders square
4.	Stair include but are not limited to:	 Spiral Dogs leg Straight flight Quarter turn
5.	Reinforcement bars include but are not limited to:	 Main bars Distribution bar links/ Stirrups Top reinforcement Bottom reinforcement
6.	Concrete materials include but are not limited to:	 Binders Fine aggregates coarse aggregates Additives and admixtures

REQUIRED KNOWLEDGE AND SKILLS

This section describes the knowledge and skills required for this unit of competency.

- Building Drawing
- Mensuration
- Construction plants and equipment
- Construction materials
- Concrete and motar mix ratios
- Curing
- Use of building tools and equipnment
- Batching
- Formwork
- Scaffolding

Required skills

The individual needs to demonstrate the following skills:

- Communication skills
- Problem solving skills
- Analytical skills
- Numeracy skills
- concrete mixer operation
- Critical thinking
- Construction tools handling skills

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills range.

Critical aspects of competency	1.1 Constructed out wall and columns as per standards building procedure and designs. 1.2 Laid building wall courses based on building regulations and design details 1.3 Laid superstructure beams and slabs as per building design and building regulations.
2. Resource implications	The following resources should be provided: 2.1 Access to relevant workplace where assessment can take place. 2.2 Appropriately simulated environment where assessment can take place. 2.3 Resources relevant to proposed activity or task.

3.	Methods of assessment	Competency in this unit may be assessed through:
		3.1 Practical assignment
		3.2 Written
		3.3 Oral interview
		3.4 Demonstrations
		3.5 Observation
4.	Context of	Competency may be assessed:
	assessment	4.1 On-the-job
		4.2 In a simulated workplace setting
5.	Guidance	Holistic assessment with other units relevant to the industry
	information for	sector and workplace job role is recommended.
	assessment	

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