

Module Syllabus

Module Title	Project Management in Plumbing Services	
Module Code	MBS3026X	
QF Credits	10	
QF Level	3	
Notional Learning Hours	102	Contact Hours: 30
		Self-study Hours: 70
		Assessment Hours: 2 (<i>Outside Contact/Self-study Hours</i>)
Pre-requisite	Nil	
Co-requisite	Nil	
Anti-requisite	Nil	
Exemption Criteria	Nil	

Module Intended Learning Outcomes:

On completion of the module, learners are expected to be able to:

1. apply critical path method in project scheduling;
2. estimate the budget of the work tasks and control the cost effectively;
3. apply supervisory skills for manpower management; and
4. apply quality control in plumbing projects.

Learning Contents and Indicative Contact Hours:

Learning Contents	Indicative Contact Hours
<p>A. Site organization and project management</p> <ul style="list-style-type: none"> • <i>Organization chart</i> • <i>Role and responsibility of different parties, e.g. Client/Owners Representative, Architect, Consultant (E&M/structure), Contractors (Main-contractor, Sub-contractor, Domestic Sub-contractor, Nominated Sub-contractor NSC), etc.</i> • <i>Project planning, project scheduling and job allocation</i> • <i>Principles and the application of Critical Path Method</i> • <i>Investigation of site requirements</i> • <i>Principles in allocating temporary facilities; temporary works, materials storages and equipment</i> • <i>Progress monitoring and programme updating</i> • <i>Project life cycle and scope of works</i> • <i>Tender specification</i> • <i>Essential elements for the formation of a valid contract, termination of contracts, damages, limitation of actions</i> 	<p>12 hours</p>
<p>B. Finance control and insurance</p> <ul style="list-style-type: none"> • <i>Estimation of income and expenditure of a project</i> • <i>Introduction of operations management</i> • <i>Basic measurement principles for plumbing works installation</i> • <i>Basic cost control for engineering project</i> • <i>Insurance arrangements for engineering project</i> 	<p>6 hours</p>
<p>C. Supervisory management & problem solving</p> <ul style="list-style-type: none"> • <i>Functions and roles of a supervisor, qualities and skills needed by a supervisor, verbal and nonverbal communications</i> • <i>Effective communication with head office, external bodies and local authorities</i> • <i>Site meetings and site administration</i> • <i>Effective written and on-site verbal instructions</i> • <i>Problems identification, generating new and innovative ideas, problem solving techniques, decision making</i> 	<p>6 hours</p>
<p>D. Quality management</p> <ul style="list-style-type: none"> • <i>Concept of quality management, goals of organizational quality management culture</i> • <i>Materials purchasing, inspection, testing and control</i> • <i>Safety awareness, risk assessments</i> • <i>Managing outsource works</i> • <i>Commissioning and adjustment</i> • <i>Jobs handover</i> • <i>Defect Liability Period / routine maintenance</i> 	<p>6 hours</p>

Mapping of Learning Contents with Module Intended Learning Outcomes:

	Learning Contents	Module Intended Learning Outcomes			
		1	2	3	4
A.	Site organization and project management	✓			
B.	Finance control and insurance		✓		
C.	Supervisory management & problem solving			✓	
D.	Quality management				✓

Learning and Teaching Strategies:

- Lectures are to develop students' critical thinking and an analytical mind to rationalize the theoretical aspects of the covered topics and to elaborate important and difficult areas, providing a meaningful framework and a focus for text reading and the corresponding tutorials.
- Tutorials are to encourage students to apply and extrapolate the knowledge they learn through various activities, including group discussions, case studies, and presentations.
- Through assignments and tutorial exercises, students can interact with tutors to develop solutions and/or solve or deal with trade situations in an interactive and pleasant learning atmosphere.

Assessment Scheme:

Continuous Assessment (CA)	
<i>Assignment</i>	30%
End-of-Module Assessment (EA)	70%
Total	100%