

Module Title:	Construction Administration 1, Site Operations Management
Language of Instruction:	English
Credits:	10
NFQ Level:	8
Module Delivered In	1 programme(s)
Teaching & Learning Strategies:	Lectures Projects Practicals Private study
Module Aim:	The aims of Construction Administration 1 are: (1) to develop a greater knowledge of the principles and practice of quality management within the construction industry (2) to develop a greater understanding of the key performance areas in construction projects (3) to develop a greater understanding of the impact of stakeholders within construction (4) to develop a greater knowledge of the project execution plan The aims of Site Operations Management are: (1) to develop a greater knowledge of the principles and practice of operations management within the construction industry (2) to develop a greater understanding of the key processes in operations management (3) to develop a greater understanding of the impact of productivity improvements in construction projects

Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	demonstrate knowledge of quality management in construction
LO2	demonstrate knowledge of performance management in construction
LO3	demonstrate knowledge of stakeholder management and client care in construction
LO4	demonstrate knowledge of the project execution plan
LO5	Analyse and design standard production processes on construction sites
LO6	Analyse standard site production processes in order to improve them
LO7	Demonstrate a knowledge and understanding of the basic techniques of inventory planning and control on construction sites
LO8	Analyse and demonstrate management of various construction equipment

Pre-requisite learning
Module Recommendations <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>
No recommendations listed
Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>
No incompatible modules listed
Co-requisite Modules
No Co-requisite modules listed
Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>
No requirements listed

Module Content & Assessment

Indicative Content
(1) Quality Management (a) ISO 9001 Quality management systems (b) Total Quality Management (c) Value management (d) Quality assurance
(2) Performance Management (a) Key Performance Indicators (b) Benchmarking (c) Data collection techniques (d) Performance management plans (e) Service level agreements
(3) Stakeholder Management (a) Identifying and classifying stakeholders (b) Stakeholder engagement (c) Relationships (d) Stakeholder management strategy report (e) Benefits, value and costs of stakeholder management
(4) Client Care (a) Customer Relations Management Systems and Software (b) Business Planning and Management (c) Data collection and protection
(5) Project Execution Plan (a) Project execution plan checklist (b) Essential contents (c) monitoring and controlling the plan
(1) Operations Processes & Performance (a) Volume (b) Variety (c) Variation (d) Degree of visibility
(2) Operations Performance (a) Quality (b) Speed (c) Dependability (d) Flexibility (e) Cost (f) Trade offs
(3) Process Design (a) Process Types (b) Process Mapping (c) Throughput Efficiency (d) Process Variability (e) Process Improvement (f) Process Reengineering (g) Layout and Flow (h) Site Layout planning (i) Interfaces between different site processes (j) Process Technology
(4) Productivity (a) Productivity Improvements (b) Work Task Analysis / work time study (c) Delay surveys (d) Benchmarking (e) TQM (f) Lean Construction (g) Value Management (h) Waste Management (i) Fast Track construction (j) Job Design
(5) Inventory Planning and Control (a) Role of inventory (b) Types of inventory (c) Order quantities (d) Timing of orders (e) Inventory priorities (f) Supply chain planning and control
(6) Management of Equipment (a) Acquisition of plant & equipment (b) Financing of equipment (c) Systematic plant selection (d) Setting internal hire rates (e) Plant Maintenance (f) Efficient use of equipment
(7) Quality Management (a) Definitions of quality (b) Quality issues in Construction Industry (c) Key Quality Concepts (d) Cost of Quality (e) Quality Tools & Techniques (f) Quality Metrics in Construction (g) Quality Control Methods

Assessment Breakdown	%
Continuous Assessment	20.00%
Project	40.00%
End of Module Formal Examination	40.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	n/a	1,2,3,4	20.00	n/a

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	n/a	1,2,3,4	40.00	n/a

No Practical

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	n/a	1,2,3,4,5,6,7,8	40.00	End-of-Semester

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	12 Weeks per Stage	8.00
Independent Learning Time	12 Weeks per Stage	16.00
Total Hours		288.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_CMOPB	Bachelor of Science (Honours) in Construction Management	7	Mandatory