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| 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 | |
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| <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 |
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| 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 |
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| (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 |

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| No Practical |
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| 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 | | |
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| <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 |