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| Level: | 7 |
| Value for TQT: | 160 |
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> |
| 1 Identify major activities, determine the resources needed from the information available and prepare draft work programmes and schedules. | 1.1 Determine and investigate major site activities on various projects. |
| | 1.2 Identify the required resources for major site activities from available project information. |
| | 1.3 Plan initial work programmes and schedules for various projects ensuring that activities and resources meet project requirements and record all the information. |
| | 1.4 Explain ways that allows major work activities to be identified. |
| | 1.5 Explain how to determine the resources required by analysing designs, contractual information, statutory consents, contractor's pre planning information, conditions of contract, health, safety, welfare and environmental plans, risk assessments and methods statements, programmes and schedules and sub-contractor arrangements and attendance in relation to the following: <ul style="list-style-type: none"> - people - plant, equipment and machinery - materials and components - sub-contractors - information - work area and facilities - waste management - utility providers. |
| | 1.6 Explain how the following drafts can be prepared: <ul style="list-style-type: none"> - programmes - network analysis - critical activities - action lists - resources schedules. |
| | 1.7 Explain why it is important to prepare draft programmes and schedules. |

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| 2 Evaluate alternative methods, resources and systems in order to select the best solution to meet project requirements. | 2.1 Assess the current methods, resources and systems. |
| | 2.2 Evaluate and record the findings of examining the methods, resources and systems to identify alternative methods, resources and systems. |
| | 2.3 Explain ways that can evaluate alternative methods and systems in relation to the following resources: <ul style="list-style-type: none"> – people – plant, equipment or machinery – materials and components – sub-contractors – information – work area and facilities – waste management – utility providers. |
| | 2.4 Explain how to select the best solutions to meet the following project requirements: <ul style="list-style-type: none"> – contract conditions – contract programme stipulations – statutory consent – building control notification – third-party obligations – health and safety requirements. |
| | 2.5 Describe the factors that determine project requirements. |
| 3 Obtain clarification and advice where the resources needed are not available. | 3.1 Consult with the following information sources where the resources required are not available: <ul style="list-style-type: none"> – stakeholders – the workforce – technical and trade literature. |
| | 3.2 Explain how to obtain clarification and advice from stakeholders, the workforce and technical and trade literature where the following resources are not available: <ul style="list-style-type: none"> – people – plant, equipment and machinery – materials and components – sub-contractors – information – work area and facilities – waste management – utility providers. |

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| 4 Analyse the activities against project requirements and the requirements of external factors. | 4.1 Examine work activities against project requirements for various projects. |
| | 4.2 Analyse the activities against at least four of the following external factors and record the outcomes: <ul style="list-style-type: none"> – other related programmes – supply lead times – contingencies – special working conditions – weather conditions – statutory limitations – site conditions – environmental considerations – customers. |
| | 4.3 Explain how to analyse method studies, work studies and production analysis activities against the following: <ul style="list-style-type: none"> – contract conditions – contract programme stipulations – statutory consent – building control notification – third-party obligations – health and safety requirements. |
| | 4.4 Describe how to identify and consider the following external factors: <ul style="list-style-type: none"> – other related programmes – supply lead times – contingencies – special working conditions – weather conditions – statutory limitations – site conditions – environmental considerations – customers. |
| | 4.5 Explain how work activities are analysed against external factors. |

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| <p>5 Determine how long each activity will take, identify activities which influence each other and sequence them logically and realistically so that they make the best use of the resources available.</p> | 5.1 Determine the duration of each project activity. |
| | 5.2 Investigate, identify and record work activities which influence each other. |
| | 5.3 Sequence work activities realistically into a schedule of works so that they make the best use of the resources available. |
| | 5.4 Describe how durations of activities for programmes and schedules are calculated. |
| | 5.5 Explain how to identify work activities that can influence each other. |
| | 5.6 Explain methods that can make best use of resources when sequencing activities logically and realistically. |
| <p>6 Ensure the production of detailed programmes and schedules of planned activities are consistent with the complexity of the project.</p> | <p>6.1 Ensure the production of detailed programmes and schedules of planned activities, including at least two of the following, which are consistent with the complexity of the project:</p> <ul style="list-style-type: none"> – programmes – network analysis – critical activities – action lists – resource schedules. |
| | 6.2 Explain how the production of detailed programmes and schedules are ensured. |
| | 6.3 Explain methods that ensure detailed programmes and schedules of planned activities are consistent with the complexity of the project. |

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| 7 Develop a system to monitor the works programmes and schedules and use the results to improve production and planning. | 7.1 Plan and implement systems that can monitor works programmes and schedules. |
| | 7.2 Monitor works programmes and schedules using a developed monitoring system. |
| | 7.3 Analyse and record the results of the monitoring and make recommendations to improve production and planning. |
| | 7.4 Explain how systems can be developed that monitor the following works programmes and schedules: <ul style="list-style-type: none"> – programmes – network analysis – critical activities – action lists – resources schedules. |
| | 7.5 Explain how systems for monitoring works programmes and schedules can be developed. |
| | 7.6 Explain ways that systems for monitoring works programmes and schedules can be implemented. |
| | 7.7 Explain how to use the results of work programmes and schedules monitoring can improve production and planning. |
| 8 Identify alterations to the works programmes and schedules to ensure they will meet changed circumstances. | 8.1 Examine work activities and compare to works programmes and schedules. |
| | 8.2 Identify and record alterations to work programmes caused by changing circumstances and calculate the cost and time benefits for required changes. |
| | 8.3 Seek and obtain decision-maker's endorsement of changes to the works programmes and schedules and record the outcomes. |
| | 8.4 Explain how to identify alterations to the following: <ul style="list-style-type: none"> – programmes – network analysis – critical activities – action lists – resources schedules. |
| | 8.5 Explain ways of ensuring that alterations to work programmes and schedules meet changed circumstances. |

| Additional information about this unit | |
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| Assessment Guidance | <p>This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment</p> <p>Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.</p> <p>Workplace evidence of skills cannot be simulated.</p> |
| Sector Subject Area | 5.2 Building and Construction |
| Availability for use | Shared unit |
| Unit guided learning hours | 50 |
| Assessment Time | 10 |