

| MODULE TITLE | PROJECT PLANNING |
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| Nominal Duration | Half Module |
| Module Code or Number | EB 073 |
| Module Purpose | The module aims to provide the means of producing a production control bar chart schedule to enable efficient monitoring of a project. It is an introductory segment of the "On-site Management" course and aims to develop understanding of the principles of basic project planning, their make up, and their benefits. |
| Relationship to Competency Standards | <p>This module will be modified in line with the requirements of the National metals and Engineering Standards when they become available.</p> <p>The module contains the knowledge and skills identified and agreed by all state/territories. It has been developed on the assumption that these will be reflected in the Standards.</p> |
| Prerequisites | Nil |
| Summary of content | <ol style="list-style-type: none"> 1. <u>Tenders</u> Reasons for calling these Requirements/constraints in a tender document Reasons for inclusions of constraints 2. <u>Production costs</u> Estimating costs of fulfilling a contract 3. <u>Data</u> Tender submission data to a visual monitoring system schedule Mathematical formulae used for conversion of data to time/cost Forecasting and control Extracting and using data 4. <u>Continuous achievement recording</u> Using graphical "S" curves |
| Delivery | On the job |

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| Learning outcomes | On completion of this module the learner will be able to: |
| <i>Learning Outcome 1</i> | Produce a production bar chart for any project based upon contractual agreement. |
| Assessment criteria | Describe the essential data required to produce a production bar chart. Explain the process of conversion of the data to bars and their relevance to the production chart. Produce a simple bar chart. |
| Conditions | Standard theory room |
| Assessment method | Short answer test Practical exercise |
| <i>Learning Outcome 2</i> | Identify the factors influencing the sequence of all production activities. |
| Assessment criteria | Explain the principles involved in establishing natural or convenience sequencing. On a bar chart indicate essential sequence item placements and variable item placements. |
| Conditions | Standard theory room |
| Assessment method | Short answer test Practical exercise |
| <i>Learning Outcome 3</i> | Identify the restraints on length of time of duration of activities. |
| Assessment criteria | Identify the major factors controlling the length of bars representing the planned time allowed for completion of each item on the chart. |
| Conditions | Standard theory room |
| Assessment method | Short answer test |

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| <i>Learning Outcome 4</i> | Convert scheduled data of man/hours or costs to weighting factors. |
| Assessment criteria | Using a tender submission schedule of prices, convert values to weighting factors of the bar chart. |
| Conditions | Standard theory room |
| Assessment method | Assignment |
| <i>Learning Outcome 5</i> | Produce a manning/resources schedule. |
| Assessment criteria | On a bar chart introduce a V-planned manning schedule using data considering man/hours or costs against weighting factors. |
| Conditions | Standard theory room |
| Assessment method | Practical exercise |
| <i>Learning Outcome 6</i> | Produce an accurate “S” curve and a cursor for continuous monitoring of production progress. |
| Assessment criteria | Describe the major influencing factors controlling the shape of the “S” curve. Produce an “S” curve on the bar chart using weighting values apportioned to each activity bar. |
| Conditions | Standard theory room |
| Assessment method | Short answer test Practical exercises |
| Suggested learning resources | Physical resources Texts/references |