

| PROBLEM DEFINITION - 15 marks | | |
|---|--|--|
| Mark Band 1 | Mark Band 2 | Mark Band 3 |
| <p>The candidate has presented a problem definition that includes</p> <ul style="list-style-type: none"> • Notes on the group work carried out in preparation for the project, outlining the organisational procedures used and their own contribution • A definition that updates the scope and purpose of the project as stated in the group project proposal taking some account of given changes to the client's requirements. • Objectives for the project which indicate the success criteria to be used to assess the final outcomes. | <p>The candidate has undertaken some analysis of the given problem and presented a problem definition that includes</p> <ul style="list-style-type: none"> • A summary of the group work carried out in preparation for the project, which outlines the organisational procedures used by the group and clarifies their own contribution to the work. • A definition that accurately re-defines the scope and purpose of the project as stated in the group project proposal to take account of given changes in the client's requirements. • Some clear and measurable objectives for the project which define the success criteria to be used to assess the final outcomes. | <p>The candidate has undertaken a comprehensive analysis of the given problem and presented a problem definition that includes</p> <ul style="list-style-type: none"> • A clear and concise summary of the group work carried out in preparation for the project, which explains the organisational procedures used by the group and clarifies their own contribution to the work. • A comprehensive project definition that accurately re-defines the scope and purpose of the project as stated in the group project proposal to take full account of given changes in client's requirements. • A set of clear and measurable objectives for the project which clearly define the success criteria to be used to assess the final outcomes. |
| 0 – 7 marks | 8 – 11 marks | 12 - 15 marks |

| PROJECT ORGANISATION - 30 marks | | |
|---|--|---|
| Mark Band 1 | Mark Band 2 | Mark Band 3 |
| <p>The candidate has produced some evidence of project organisation and has</p> <ul style="list-style-type: none"> • Set up and use procedures for storing project information that aid retrieval and data security • Used appropriate software to produce a plan showing overall timescale, most project stages, some activities in each stage and timings for each identified activity • Used the plan to communicate progress during the project • Used the plan to review and record changes in anticipated progress and account for initial contingencies • Made some use of appropriate project management tools to progress the project | <p>The candidate has produced evidence of project organisation and has</p> <ul style="list-style-type: none"> • Described how to set up and use procedures for storing project information that aid retrieval and data security • Used appropriate software to produce a plan showing overall timescale, project stages, activities in each stage and timings for each identified activity • Used and updated the plan to clearly communicate progress during the project • Made some evaluation of the likely impact of delays arising and has adjusted the plan to offset their effect and account for initial contingencies • Made use of appropriate project management tools to facilitate the progress of the project | <p>The candidate has produced clear evidence of project organisation and has</p> <ul style="list-style-type: none"> • Explained how to set up and use procedures for storing project information that aid retrieval, promote monitoring and support data security • Used appropriate software to produce a detailed plan showing overall timescale, activities in each stage, timings for each activity, contingency times and review points • Used and updated the plan as necessary to clearly communicate progress throughout the project • Fully evaluated the impact of delays arising and has adjusted the plan to minimise their effect and account for initial contingencies • Made effective use of a range of appropriate project management tools to facilitate the progress of the project |
| 0 – 14 marks | 15 – 23 marks | 24 – 30 marks |

| THE PROJECT - 30 marks | | |
|---|---|--|
| Mark Band 1 | Mark Band 2 | Mark Band 3 |
| <p>The candidate has</p> <ul style="list-style-type: none"> Produced a design for a numerical model that provides some indication of the layout and identifies some of the required content Designed some rules and identified some of the calculations for use in the model making some use of facilities of the applications package Included proposals for data entry facilities that are intended to facilitate data entry Indicated methods for presenting some required outputs Developed a working numerical model based on rules that make some use of formulae and functions Produced a prototype and carried out limited testing Produced a limited plan for testing, tested the model for correct operation and presented some results with some comments | <p>The candidate has</p> <ul style="list-style-type: none"> Produced a design that for a numerical model that provides proposals for layout, formats, user interaction and some graphical content Designed rules and identified calculations for use in the model, making some use of functions and formulae Included proposals for data entry facilities that are intended to facilitate accurate data entry Included proposals for presenting the required outputs Developed a working model that is well formatted and based on rules that make use of formulae and functions Produced prototypes, carried out testing and made some refinements Produced a plan for testing the model for correct operation and presented results with suitable comments | <p>The candidate has</p> <ul style="list-style-type: none"> Produced a comprehensive design for the structure of a numerical model that provides detailed proposals for layout, formats, user interaction and graphical content Designed effective rules and identified calculations for use in the model, making good use of functions and formulae Included proposals for data entry facilities and validation rules intended to facilitate data entry Included clear proposals for the effective presentation of all required outputs Developed a numerical model that is fit for purpose, well formatted and based on rules that make effective use of formulae and functions Produced prototypes, carried out effective testing and refined the model accordingly Produced a comprehensive plan for testing the model for correct operation and presented all results with informed commentaries |
| 0 – 14 marks | 15 – 23 marks | 24 – 30 marks |

| REVIEW - 20 marks | | |
|--|---|--|
| Mark Band 1 | Mark Band 2 | Mark Band 3 |
| <p>The candidate has</p> <ul style="list-style-type: none"> • Made some evaluative comments about the model identifying some good and less successful features • Evaluated the main management tool used to progress the project • Commented on own performance in organising and managing the project identifying some strengths and/or weaknesses • Commented on the value of the preliminary group and the organisational methods used identifying some strengths and/or weaknesses • Provided evidence that conveys meaning but lacks detail. Little use of specialist vocabulary. The work may contain inaccuracies. | <p>The candidate has</p> <ul style="list-style-type: none"> • Evaluated the completed model against performance criteria and identified good and less successful features of the model and made some suggestions for improvements • Evaluated the management tools used to facilitate the progress of the project • Described both strengths and weaknesses in own performance in organising and managing the project and has made some suggestions for improvements • Evaluated the value of the preliminary group work, identifying both strengths and weaknesses of the organisational methods used and included some suggestions for improvements • Provided evidence that is structured clearly to communicate meaning. Technical vocabulary is used accurately. The work will contain relatively few errors. | <p>The candidate has</p> <ul style="list-style-type: none"> • Evaluated the completed model against performance criteria, identified good and less successful features of the model and described significant potential improvements • Evaluated in detail the effectiveness of the management tools used to facilitate the progress of the project • Described both the strengths and weaknesses in own performance in organising the project, including valid suggestions for future improvements • Evaluated the value of the preliminary group work, identifying both strengths and weaknesses of the organisational methods used and included valid suggestions for improvements • Provided evidence that is well structured and clearly expressed. Specialist terms are used with ease and accuracy. The work will be largely error free. |
| 0 – 10 marks | 11 – 15 marks | 16 – 20 marks |

| PRESENTATION - 5 marks | | |
|---|---|---|
| Mark Band 1 | Mark Band 2 | Mark Band 3 |
| <p>The candidate has presented</p> <ul style="list-style-type: none"> Some of the specified evidence, linked to the template provided, with few obvious errors and in the required formats | <p>The candidate has presented</p> <ul style="list-style-type: none"> Most specified evidence, linked to the template provided, without obvious errors and in the required formats | <p>The candidate has presented</p> <ul style="list-style-type: none"> All specified evidence, linked to the template provided, accurate and in the required formats, with no unnecessary work included |
| 0 – 2 marks | 3 – 4 marks | 5 marks |