

## CORE OBJECTIVES (BUD)

| 1. Introduction   | Code | ES initials and<br>Date of Assessment |   |   |   |
|---|------|---------------------------------------|---|---|---|
|   |      | G                                     | K | E | C |
| <p><b>1.1 Have a working appreciation of the history, activities, structure, Management System, Quality Assurance System and personnel &amp; welfare policies of the Company</b></p> <ul style="list-style-type: none"> <li>- conversant with all relevant data and charts</li> <li>- be able to write a report on the roles and responsibilities of a Graduate Building Engineer in a typical project</li> </ul> | E    |                                       |   |   |   |
| <p><b>1.2 Be able to use computer applications on the production of day-to-day reports</b></p> <ul style="list-style-type: none"> <li>- demonstrate ability by giving computer sketches and using computer for project programming</li> </ul>   | C    |                                       |   |   |   |
| <p><b>1.3 Have a working appreciation of your responsibilities with respect to site safety by being familiar with current legislation</b></p> <ul style="list-style-type: none"> <li>- read the safety regulation and attend a course on the subject</li> <li>- record involvement in safety matters in your Quarterly Reports and discuss with the TT at quarterly interviews</li> </ul>                         | E    |                                       |   |   |   |

## CORE OBJECTIVES (BUD)

| 2. <b>Producing Work</b>  | Code | ES initials and<br>Date of Assessment |   |   |   |
|---|------|---------------------------------------|---|---|---|
|   |      | G                                     | K | E | C |
| <b>2.1     Have a good working appreciation on:-</b><br>- how all parties to a contract exercise their duties and responsibilities<br>- the practical application of the various documents forming a particular contract<br>- the procurement of contracts<br>- the process of design and how it is managed | E    |                                       |   |   |   |
| <b>2.2     Have a working appreciation of the procedure for the issue and/or receipt, registration and filing of work instructions and/or drawings and amendments</b>   | E    |                                       |   |   |   |
| <b>2.3     Be able to keep accurate daily records of events and instructions</b>  | C    |                                       |   |   |   |
| <b>2.4     Be able to read and co-ordinate drawings and/or implement work instructions by being involved on a day-to-day basis in this process</b>  | C    |                                       |   |   |   |
| <b>2.5     Demonstrate your competence by the quality of work related to be able to participate in the dimensional control and accuracy of the work which you are implementing</b>  | C    |                                       |   |   |   |
| <b>2.6     Have a working appreciation of the use, performance and cost of equipment and/or plant used in implementing a solution of the works</b>  | E    |                                       |   |   |   |

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|   |      | G                                     | K | E | C |
| 2.7 <b>Be able to plan, programme and progress work by programming a section of work and being involved in progress monitoring and reporting</b>  | C    |                                       |   |   |   |
| 2.8 <b>Be able to:</b><br>- measure and record or independently check work done for payment purposes<br>- prepare or check Interim valuations   | C    |                                       |   |   |   |
| 2.9 <b>Have a good appreciation of the sources and availability of material, plant and equipment, manpower and sub-contractors used in running a project</b>  | E    |                                       |   |   |   |
| 2.10 <b>Have a critical approach to safety matters in the implementation process and in the observance of safe working practices</b><br><br>- know your responsibilities relating to safety and be familiar with legislation relating to your particular work<br><br>- appreciate good safety practices relevant to your work by reference to company safety manual | E    |                                       |   |   |   |
| 2.11 <b>Have a sound working appreciation of:</b><br>- the principles of quality control related to meeting a designated specification<br>- good practices of Total Quality Management<br>- the implementation of ISO9000 and ISO14000 systems  | E    |                                       |   |   |   |
| 2.12 <b>Have a good understanding of and be able to implement Site Quality Assurance Systems</b>  | E    |                                       |   |   |   |

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| <b>2.13 Be able to supervise project personnel and sub-contractors in your responsible areas/zone/block</b><br><br>- demonstrate your ability by the smoothness of your work<br>- appreciate the role of various parties including the RPE<br>- carry out supervision according to the Site Safety Supervision Plan | C    |                                       |   |   |   |
| <b>2.14 Be able to co-ordinate with the Client/Consultant/Sub-Contractor</b><br><br>- demonstrate your ability by the smoothness of your work   | C    |                                       |   |   |   |
| <b>2.15 Be able to co-ordinate the interface of building services installations and builder's work</b>  | E    |                                       |   |   |   |
| <b>2.16 Be able to ensure all incoming and outgoing documents are properly circulated and action</b><br><br>- demonstrate your ability by the smoothness of your work and understanding of Document Management System   | C    |                                       |   |   |   |
| <b>2.17 Carry out simple design for falsework, formwork and temporary work, and appreciate the correct practice of their construction</b>   | E    |                                       |   |   |   |
| <b>2.18 Have a working appreciation of the procedures for foundation construction and geotechnical engineering works</b>  | E    |                                       |   |   |   |

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|---|----------|---------------------------------------|---|---|---|
|   |          | G                                     | K | E | C |
| <p><b>3.1 Have experience in identifying and defining a problem accurately</b></p> <ul style="list-style-type: none"> <li>- be able to plan an active part, albeit in a supporting role, in researching, assembling and assessing basic data</li> <li>- be able to demonstrate the thought/analytical process by which the problem was finally defined</li> </ul>   | <b>E</b> |                                       |   |   |   |
| <p><b>3.2 Gain practical experience in the identification and evaluation of alternative solutions to a problem</b></p> <ul style="list-style-type: none"> <li>- assist in the technical and financial evaluation of alternatives</li> </ul>   | <b>E</b> |                                       |   |   |   |
| <p><b>3.3 Have a working knowledge of and be able to apply limitations of national and International Standards, Codes of Practice, Technical Memorandum, etc.</b></p>   | <b>E</b> |                                       |   |   |   |
| <p><b>3.4 Be able to produce the solution to a problem</b></p> <ul style="list-style-type: none"> <li>- be able to draw together all the relevant data and analytical work appropriate to your sector of the building industry</li> <li>- be able to produce a preferred solution with justifications, or by an accompanying statement, how this work contributes to the solution of the problem and identify the major factors on which the solution depends for accuracy or completeness</li> </ul> | <b>E</b> |                                       |   |   |   |

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|  |          | G                                     | K | E | C |
| <p><b>3.5    Be able to present a solution to a given problem</b></p> <ul style="list-style-type: none"> <li>- produce documentation on the solution containing diagrams, sketches, charts, etc.</li> </ul> <p>AND/OR</p> <ul style="list-style-type: none"> <li>- produce general arrangement and detailed drawings using scales and drawing sizes appropriate to the information to be conveyed</li> </ul> | <b>C</b> |                                       |   |   |   |
| <p><b>3.6    Appreciate the way a report on environmental issues is used in arriving at an engineering solution</b></p> <ul style="list-style-type: none"> <li>- understand the relevance of environmental assessment as it affects the solution of a problem within the organisation</li> </ul>   | <b>E</b> |                                       |   |   |   |
| <p><b>3.7    Appreciate the way technical specifications are an essential part of the solution of a problem</b></p> <ul style="list-style-type: none"> <li>- select or write a specification and/or amend an existing specification for a particular item of work</li> </ul>   | <b>E</b> |                                       |   |   |   |
| <p><b>3.8    Have experience of costing the solutions to problems by:</b></p> <ul style="list-style-type: none"> <li>- taking off quantities and building up cost estimates</li> <li>- carrying out a cost benefit analysis</li> <li>- applying life cycle costing and value engineering concepts</li> </ul>   | <b>E</b> |                                       |   |   |   |

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|  |      | G                                     | K | E | C |
| <p><b>3.9 Be thoroughly familiar with the requirements for safety in problem solving by being familiar with the Regulations applying to your work</b></p> <p>- state which Regulations you have used and the safety criteria which you have followed in a Quarterly Report</p> | E    |                                       |   |   |   |
| <p><b>3.10 Appreciate the way to produce programming in different stages</b></p> <p>- understand the programming methods including computer-aided programming</p>  | C    |                                       |   |   |   |
| <p><b>3.11 Have experience of method statement production and programming in different stages</b></p>  | E    |                                       |   |   |   |
| <p><b>3.12 Demonstrate the ability of resources planning</b></p>   | E    |                                       |   |   |   |
| <p><b>3.13 Appreciate the environmental considerations in planning a project</b></p>   | K    |                                       |   |   |   |

## CORE OBJECTIVES (BUD)

| 4. <b>Pre-Contract Work</b>   | Code | ES initials and<br>Date of Assessment |   |   |   |
|---|------|---------------------------------------|---|---|---|
|   |      | G                                     | K | E | C |
| 4.1 <b>Have a good working understanding of the Company's tendering process</b>   | E    |                                       |   |   |   |
| 4.2 <b>Gain practical experience in the tendering process</b><br><br>- assist in the following aspects:-<br>* pre-qualification enquiries<br>* pricing enquiries<br>* tender interviews   | E    |                                       |   |   |   |
| 4.3 <b>Have a working appreciation the written and verbal format the tender is presenting on enquiries and interview stages</b><br><br>- understand the presentation format as it affects the others' evaluation and assessment of our tender | E    |                                       |   |   |   |
| 4.4 <b>Gain practical experience in budgeting for a project</b>   | E    |                                       |   |   |   |



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| 5. Post-Contract Work  | Code | ES initials and<br>Date of Assessment |   |   |   |
|--|------|---------------------------------------|---|---|---|
|  |      | G                                     | K | E | C |
| 5.1 Have a working knowledge of the system and concept use in the post-contract stage  | E    |                                       |   |   |   |
| 5.2 Be able to participate in the post-contract work of your project and be able to measure and check work done for claims/charges/payment<br><br>- take part in those work for the preparation or checking of valuation and/or final accounts | C    |                                       |   |   |   |
| 5.3 Gain practical experience in reviewing the budget of a project at interim and final stages   | E    |                                       |   |   |   |

