

Job Title: Test and Approvals Engineer	Location: Hunmanby/Mansfield
Department: Test & Approvals	Contract: Permanent
Reports To: Test & Approvals Manager	Direct Reports: N/A

1.0 Job Summary & Role

The individual will work within the Test and Approvals department located at the DSE office Hunmanby. They will perform verification and validation activities at a product and system level on new product developments as an integral part of ensuring high-quality products are built by the company.

Full training and support will be provided.

2.0 Key Responsibilities & Main Duties

- Develop internal procedures and techniques for verification and validation testing
- Develop, test, and implement PLC programs using ladder logic and/or structured text for automation and control systems.
- Write and execute test scripts and plans for the testing of products as part of a new product development and release process
- Setup test apparatus, including wiring and rewiring of test looms
- Complete test and issue reports as part of testing in a controlled manner.
- Utilise existing and contribute to the development new testing tools.
- Communicate and maintain timing records for time spent on projects.
- Make use of the company documentation, version control system and issue management systems to record findings in a controller manner.
- Obtain product knowledge and assist with new product specification.
- Other ad hoc duties as and when required.

3.0 Internal & External Relationships

Engineering department – the test and approvals engineer will work closely with the software development team whilst testing the products and communicate the detail of the results.

Technical Support – assist technical support with more involved customer queries.



4.0 Key Performance Indicators

- Attention to detail, patience and self-discipline required for software testing.
- Consistently using positive working and communication practices to contribute to software verification.
- Desire to learn and acquire new skills and knowledge for DSE products and applications in order to fulfil completely the role requirements.

5.0 Essential/Desirable Factors

Knowledge	
<p>Essential:</p> <ul style="list-style-type: none"> • Good knowledge of electrical systems theory. • Working with Live voltage. • A good level of understanding of testing types, testing methodologies and software product development lifecycles. 	<p>Desirable:</p> <ul style="list-style-type: none"> • ECU and engine control • CAN and conventional diesel • Hardware in loop testing
Skills & Attributes	
<p>Essential:</p> <ul style="list-style-type: none"> • Ensure the repeatability of software test plan execution to identify and capture issues during the first test cycle. • PLC programming in ladder logic and/or structured text. • Attention to detail, patience and self-discipline required for software testing. • An open attitude for learning and continuous skills development • Able to perform tasks on their own or as part of a team. Teamwork is essential. • Ability to multitask and manage multiple testing activities efficiently. • Good understating and usage of the Microsoft Office package 	<p>Desirable:</p> <ul style="list-style-type: none"> • C or equivalent programming knowledge
Experience	



JOB DESCRIPTION & PERSON SPECIFICATION



<p>Essential:</p> <ul style="list-style-type: none"> • 2-3 years of experience in testing electrical and electronic systems • Good level of experience with diesel engines operation and control. • Work as part of a team on various testing projects 	<p>Previous experience in power generation, diesel generators and microgrids.</p>
Qualifications	
<p>Essential:</p> <ul style="list-style-type: none"> • BTEC or HND in electrical engineering 	<p>Desirable:</p>

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T&A Department Manager	24/03/205

