

## Role Profile

<b>Role Title:</b>	System Integration & Testing Engineer
<b>Department:</b>	Technology & Transformation
<b>Role Purpose:</b>	<p>The System Integration &amp; Testing Engineer will work with Application Development, Project Management, and business stakeholders to plan, manage and execute testing for new software, system changes and upgrades:</p> <ul style="list-style-type: none"> <li>• Define and document test scenarios and acceptance criteria.</li> <li>• Carry out testing throughout the development and implementation lifecycle, both exploratory and scripted, using a variety of tools and techniques, covering both functional and non-functional requirements.</li> <li>• Provide expert guidance on system integration, defining running and reporting on stress, regression, integration and performance tests appropriate to each change.</li> </ul>
<b>Reporting to:</b>	Head of Business Solutions
<b>Responsible for:</b>	N/A
<b>Checks:</b>	Basic DBS & Social Media Check
<b>Role Level:</b>	Frontline Worker

<b>Key Role Responsibilities</b>	<ul style="list-style-type: none"> <li>• Deliver testing activities as per the testing and project methodologies.</li> <li>• Understand core system integrations and the business requirements these support. Work with Application Support, Development and Business Systems Analyst teams to document and define all methods of integration, impacts on business operations, configuration and support requirements. Act as SME to Business Analysts, Project Teams, and business stakeholders to define and recommend integration methods for new systems, software or changes to the current estate.</li> <li>• Work with the Lead Software Engineer, Application Support Manager, Head of Business Systems and the appointed Managed Testing provider to ensure testing methodologies are fit for purpose, up-to-date and reflect current best practices.</li> <li>• Work with Managed Testing providers, managing the delivery of outsourced testing on specific projects, or as a blended test team approach where required.</li> <li>• Work collaboratively to define and document test scenarios, test</li> </ul>
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	<p>cases and acceptance criteria.</p> <ul style="list-style-type: none"> <li>• Plan, schedule and manage testing in accordance with timescales agreed with stakeholders and suppliers.</li> <li>• Create and maintain all test documentation including test plans, test execution reports, defect reports, issue logs and test closure reports.</li> <li>• Execute testing throughout the development and implementation lifecycles, using a variety of tools and techniques, covering functional and non-functional requirements.</li> <li>• Develop test automation; create and maintain automated regression test suites</li> <li>• Guide, support and manage business users through UAT to ensure they carry out tests effectively.</li> <li>• Report and provide updates to all key stakeholders on testing progress and outcome; communicate issues and impacts appropriately, liaising with suppliers and internal stakeholders to resolve issues.</li> <li>• Manage relationships with all key suppliers during the testing phase.</li> <li>• Support project sponsors to perform post project reviews, analyse issues that occur and promote continuous improvement through lessons learnt.</li> </ul>
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<p><b>Education, Qualifications and Training</b></p>	<ul style="list-style-type: none"> <li>• ISTQB or ISEB Certified Tester at Intermediate certificate Level, an equivalent qualification, or comparable experience.</li> </ul>
<p><b>Knowledge and Experience</b></p>	<ul style="list-style-type: none"> <li>• Experience in planning, scheduling and managing testing activities across both system change and software development.</li> <li>• Knowledge of the test life cycle and test activities.</li> <li>• Knowledge of analysis techniques including requirement analysis, data modelling and process mapping.</li> <li>• Experience of enterprise level business systems, ideally Housing Management systems, Asset Management and Repairs/Scheduling systems, Finance and HR systems.</li> <li>• Knowledge of SOAP/RESTful API integration, Micro Service Architecture and Microsoft SQL Server Integration Services.</li> <li>• Experience in creating test plans.</li> <li>• Knowledge and experience in creating test scenarios, test cases and test scripts using standard testing techniques.</li> <li>• Knowledge and experience in creating test execution reports, defect reports and test closure reports.</li> <li>• Experience in manual testing and executing test scripts.</li> </ul>

	<ul style="list-style-type: none"> <li>• Experience in system testing, integration testing, UAT testing, end to end testing, performance testing, functional testing and non-functional testing.</li> <li>• Experience of testing desktop, web based and data integration solutions.</li> <li>• Knowledge and experience of the defect management process, logging, tracking and escalating defects/issues through to resolution.</li> <li>• Experience of working in an Agile/Scrum environment and knowledge of the scrum methodology.</li> <li>• Experience with automated testing methodologies / frameworks.</li> <li>• Experience working with outsourcing Managed Testing partners beneficial</li> <li>• Experience in dealing with third party suppliers.</li> <li>• Knowledge of project management techniques.</li> </ul>
<b>Role Specific Skills &amp; Behaviours</b>	<ul style="list-style-type: none"> <li>• Self-starter, able to quickly evaluate systems/changes/integrations and determine a course of action for testing.</li> <li>• Able to understand system requirements and changes to translate them into executable tests to demonstrate fitness for purpose.</li> <li>• Good all-round communication skills, both internal and external at all levels.</li> <li>• Ability to translate and explain technical solutions to non-technical users.</li> <li>• Able to work on own initiative or as part of a team.</li> <li>• Self-motivated and organised, able to prioritise own workload effectively.</li> <li>• A pragmatic approach to testing, ensuring business risk is minimised but testing is not unnecessarily onerous.</li> <li>• Good time management skills with the ability to multi task on complex overlapping activities.</li> <li>• Patience and tact in dealing with other people and remaining professional at all times.</li> <li>• Understanding of and commitment to the principles of equality and diversity.</li> </ul>