

## *Skill Profile*

### *Test and Support Engineer*

#### **Role**

Integration and validation of wireless user terminals and host-based development toolsets. The more experienced Principal Engineer roles will also involve team leading within a project team. Some roles are customer-facing, operating in a support capacity.

#### **Responsibilities**

- Generation of test plans, requirements, procedures and test coverage cross-reference matrices
- Setup and management of RF, protocol and network interworking test configurations
- Test execution, including RF measurements and use of bespoke software-based test tools
- Scripting and test automation
- Generation of test logs and assignment of pass/fail verdicts
- Writing test reports
- Analysis and debugging of technical issues on RF, protocol and/or network interworking issues
- Liaison with client personnel regarding equipment usage, test procedures and results
- Presentation of results
- Entry and tracking of problems in bug control systems
- Configuration control of equipment and software
- Writing user manuals for equipment and common test methods

#### **Essential Skills and Experience**

Experience in a minimum of four of the following fields:

- Experience of RF performance, protocol conformance and/or interworking testing of mobile wireless terminals
- Familiarity with RF test equipment and common RF measurements, including spectrum analysers, power meters and signal generators
- Experience of coding or scripting in one or more languages such as Perl, TCL/TcK, Python or TeraTerm
- Use and capabilities of IP-based protocols and applications, including TCP/UDP, SIP, RTP/RCTP, VoIP, video streaming, FTP, Telnet , iPerf
- Test requirements analysis, specification and traceability
- Generation of test procedures from test requirements, air interface specifications and user operation manuals



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### **Desirable Skills and Experience**

- Understanding of the OSI 7-layer stack model definition and operation as applied to a typical air interface stack
- Mobile or fixed satellite communications experience
- Experience with automated test tools such as WinRunner and LoadRunner
- Use of bug control systems
- Lab skills such as soldering and cable making

### **Qualifications**

University degree, HND or equivalent in Electronics Engineering, Physics, Maths or Computing.

### **Personal Profile**

- Self-motivated and enthusiastic, able to follow through tasks thoroughly and with a focus on delivery to deadlines
- Continual desire to learn new technologies, tools and techniques
- Logical and methodical approach to task management and problem solving, with attention to detail in planning and execution
- Ability to debug and characterise problems in both breadth and depth, going to a level that is sufficient and appropriate for the particular issue in hand
- Focus on pragmatism, system impacts of issues, and problem prioritisation
- Ability to clearly express status and issues to team leaders and project management
- Adaptable to new requirements and flexible to change
- Ability to function effectively within a team
- Ability to operate under pressure and with tight deadlines