



BLACKSTONE&

G-Cloud 15 | Lot 3 – Cloud Support Services

Quality Engineering & Test Automation

Service Description

Quality engineering and test automation services ensuring cloud applications meet functional, non-functional, and accessibility requirements. We design test strategies, build automation frameworks, execute performance testing, and embed quality practices—enabling continuous testing in DevOps pipelines while meeting government accessibility standards and service assessment expectations.

Service Overview

The Quality Engineering & Test Automation service helps organisations build quality into their digital services through modern testing practices and automation.

Quality is not something that can be tested into software after development; it must be built in throughout the delivery lifecycle. Modern quality engineering shifts testing left, automates regression, and embeds quality practices throughout development and operations. This approach catches defects early when they're cheap to fix and provides confidence that changes can be released safely.

Our service provides comprehensive quality engineering capability:

Test Strategy: We design test strategies that balance coverage with efficiency, identifying what to test, when, and how. Our strategies align with GDS service standards and accessibility requirements.

Test Automation: We build automation frameworks that enable continuous testing within CI/CD pipelines. Our frameworks are maintainable, reliable, and provide fast feedback to development teams.

Performance Testing: We design and execute performance tests that validate systems can handle expected loads and degrade gracefully under stress. This includes load testing, stress testing, and capacity planning.

Accessibility Testing: Public sector services must be accessible to all users. We embed accessibility testing throughout delivery, ensuring WCAG compliance from the start.

Quality Practices: We help teams embed quality practices including test-driven development, behaviour-driven development, and continuous quality improvement.

Service Features

- Test strategy and quality assurance framework design
- Test automation: Selenium, Cypress, Playwright, and Appium
- API testing: Postman, REST Assured, and contract testing
- Performance testing: JMeter, Gatling, k6, and Locust
- Accessibility testing: WCAG 2.2 AA compliance validation
- Security testing: OWASP ZAP, Burp Suite integration
- CI/CD pipeline test integration and quality gates
- Behaviour-Driven Development with Cucumber and SpecFlow
- Test environment management and test data strategies
- Quality engineering capability transfer and training

Service Benefits

- Improved quality through comprehensive test coverage
- Faster feedback with automated regression testing
- Reduced defects reaching production environments
- Accessibility compliance meeting legal requirements
- Performance assurance under realistic load conditions
- Security vulnerabilities identified before deployment
- Accelerated delivery through continuous testing practices
- Cost reduction through early defect detection
- Sustainable quality capability through knowledge transfer
- GDS assessment readiness with documented quality evidence

Available through G-Cloud 15 Framework | Lot 3 – Cloud Support Services