IV&V AUSTRALIA - A SOFTWARE TESTING CONSULTANCY

IV&V Australia's team of experienced consultants specialise in establishing software testing and IV&V strategies, in monitoring their progress, and in acting as independent testers.

We are in the business of answering questions like...
- *How can we improve the quality of our product?*
- *Is my development project at risk?*
- *Where can we get specialist testing expertise?*
- *Where can we get training for our testers?*

Reduce risk, gain confidence… *with an accredited independent software testing specialist. Effective testing during the development lifecycle can help you reduce the risk of schedule blowouts, cost overruns and low quality software released to your customers.*

Our Services

IV&V Australia provide the following services:

- *Test Team Services* – working with your development team as hands-on testers, test managers or mentors.

- *Test Process Improvement* – helping to improve your software testing and test management capabilities.

- *Product Testing* – conducting an independent end-of-lifecycle test of your application in our NATA accredited Test Lab.

- *Software IV&V activities* – reviewing a project's testing and development activities on behalf of a project office, prime contractor, system purchaser, or investor.

- *Training* in software testing.

What is our approach to software testing?

At IV&V Australia, we believe in doing the right testing, using the right people, at the right time. This philosophy allows us to maximise your return on test investment and reduce your project risks.

While we use a process-rich strategy, our processes are designed to be highly adaptable to modern development methods. We recognise that different projects have different needs, and so we tailor our approach to suit your own technical and commercial imperatives.

By prioritising test effort based on risk, we can strike the right balance between quality and schedule. By providing early feedback and management visibility, we aim to improve product quality and reduce project risk.

We believe in common sense-software testing.

What application types do we test?

We have proven expertise in a wide range of application areas, including:

- HI and SMD CCA testing for eHealth applications

- Business applications;

- E-commerce and web applications;

- Mobile applications;

- Biomedical systems;

- Embedded systems platforms for IT applications;

- Client/server database systems

- Cloud-based applications.

Our Consultants

Our consultants are all experienced testing practitioners. They understand the practical realities of being a software tester on a development project. They know how to deliver results.

Our consultants are hand picked to provide the best specialist expertise to our customers. They come fully supported by IV&V Australia's technical infrastructure, including management oversight, peer review, and access to the IV&V Toolkit.

Our consultants are also active participants in activities that promote software testing in the software development community.

We provide a "value-added" solution.

The IV&V Toolkit

Our key to providing successful outcomes is the IV&V Toolkit – a framework for how we do our consulting. The Toolkit is a grab bag of testing techniques that enable our consultants to provide the most effective and appropriate testing solution for our clients.

The Toolkit is made up of:

- A collection of "How We Do It" test process descriptions, checklists and worksheets.
- Test document templates. Our documentation method is scalable to suit lightweight "agile" technologies as well as more traditional development methodologies
- A test process improvement model. We base our model on five levels of organisational maturity and 16 key test process areas.

Test Team Services

Our test consultants have a flexible approach to providing testing support to development projects – we can be:

- An external mentor to the test manager.
- A test manager/team leader.
- Individual testers within the test team, or
- A complete self-managing test team.

We can provide short-term assistance to help you through peak workload periods; or we can have a long-term involvement, from the start to the end of the project.

Test Process Improvement

The key element of IV&V Australia's test process improvement strategy is to provide a skills transfer from our company to yours. Using the Toolkit's test process model, we can assess your project's "testing maturity" as well as provide you with a "road map" for step-by-step improvements.

Our involvement can be as simple as reviewing your current test practices and suggesting improvements, through to establishing a formal test process improvement program and working with you to implement it. We can even help you to develop your own set of How We Do Its, tailored to suit your technical and organisational needs.

We use our expertise to help you improve yours.

Training

IV&V Australia present a two day software testing training course called End to End Software Testing.

This is offered as an in-house course on your premises.

Product Testing

In our in-house Test Lab, we can conduct a one-off qualification test of your software product.

We can test for:

- Functionality
- Compatibility
- Healthcare Identifiers and Secure Message Delivery CCA conformance.

Our facilities allow us to set up a wide range of test configurations quickly and efficiently, and to test under controlled and reproducible conditions.

Our Test Lab is accredited to ISO 17025 by the National Association of Testing Authorities (NATA). This accreditation enables us to issue a Test Report that will be recognised by regulatory bodies throughout Australia and the world.

By using an independent, accredited test lab, you can be confident that your application has been systematically tested and the results you receive are objective and accurate.

Software IV&V

IV&V Australia's consultants are highly experienced in providing software development management services to project offices, prime contractors, and other stakeholders.

Software IV&V support will give you visibility into the development process, leading to confidence that your project milestones are met, the deliverables are acceptable, and the risks are effectively managed. We can achieve this in a number of ways:

- Document and process reviews
- Software strategy and product evaluations
- Requirements tracing
- Risk management
- Acquisition assistance
- Hazards analysis.