Quality Assurance Strategies

Slash Testing Costs 30% to 50%

The risk of changing how IT is developing and testing applications holds some leaders back. But the real risk is continuing to spend significant budget on eliminating defects in production where their impact can be far reaching and much more costly. To meet speed-of-business demands while dealing with shrinking IT budgets, something must change.

Ciber puts quality first to lower risk, gain development speed while lowering project costs, and ultimately to achieve better quality software products.

Client Quotes

Test automation increased our production releases by 5 times what we have previously release per year – from 8 to 40.”
- Vice President at a leading North American food production and distribution company

“Thanks to Ciber we have saved time and money releasing more than 50 production builds without a major defect.”
- Systems Specialist, Dakota - County (MN)

Analyst Quote

“Ciber is taking a consulting approach to software testing and quality assurance, and is backing its consulting approach with tools such as its proprietary Intent, Context and Evidence (ICE) methodology to limit the test execution effort. ICE helps understand what needs to be tested in a given application.”
- IT Services Research Director, NelsonHall

Reimagine quality assurance strategies
Quality-first approaches find and eliminate defects early when cost per defect is lowest, and enable developers to test drive designs and to automate their test cases.

Outcome-driven cost optimization, even in testing, trumps across the board cost cuts that studies have shown will destroy adaptability and growth.

A methodical approach to test data creation recognizes the inconsistency and missing combinations in production data, and eliminates guesswork about test coverage.

Using and integrating cloud-based toolchains saves time and allows development teams to focus on adding value and enhancing business experience.

### Quality Assurance and Testing Recommendations from Ciber:

- **Quality Assurance Strategies**
  - Quality-first approaches find and eliminate defects early when cost per defect is lowest, and enable developers to test drive designs and to automate their test cases.
  - Outcome-driven cost optimization, even in testing, trumps across the board cost cuts that studies have shown will destroy adaptability and growth.
  - A methodical approach to test data creation recognizes the inconsistency and missing combinations in production data, and eliminates guesswork about test coverage.
  - Using and integrating cloud-based toolchains saves time and allows development teams to focus on adding value and enhancing business experience.

### Unique Approaches

<table>
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<tr>
<th>Approaches</th>
<th>Results</th>
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<tbody>
<tr>
<td>Proprietary Conditional Test Model and Optimal Pathing Methodologies</td>
<td>• No severity 1 product defects in last four years (approx. 50+ cycles)</td>
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<td>• Maximized test coverage with just enough test cases saves 60% to 85% in test maintenance costs</td>
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<td>Script-less Automation Frameworks</td>
<td>• Test automation increased manual production releases per year by 5X from 8 per year to 40 per year</td>
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<td>• Test Automation collapses Test Cycle time from 30 person days to 2</td>
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<td>Test Optimization</td>
<td>• Reduces project testing costs by 40% to 50%</td>
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### Quality Assurance Strategies

#### Enterprise Quality Assurance and Testing Center of Excellence Services

**Discovery Workshops**
- Quality Advisory Consulting & Maturity Assessments
- Testing - Test Automation and Optimization
- Performance, Load and Volume Testing
- Mobile Testing Readiness
- User Experience

**Assessments**
- User Experience Effectiveness
- Test Data Management
- Mobile Testing
- Test and Release Automation

**Pilots and Projects**
- Software Development Engineering in Test (SDET)
- Implement Test Automation
- Mobile Testing Programs
- Software Factory Enterprise Testing Integration

**Managed Services**
- Application Modernization
- Enterprise QA and Testing
- Develop and Maintain Software Products
- Mobility Testing as a Service (MTaaS)

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**Partner with Ciber to improve application quality**

- Reduce testing costs by 30%-50%, while releasing 4X-8X faster
- Collapse test cycle time over 90%, while reducing overall resources
- Create broader coverage with test optimization while using fewer test cases – slashing maintenance costs by 60%-80%
- Early defect detection reduces application time-to-market by 25%
- On average, test data management decreases production bugs by 20%

Combining unmatched expertise and innovation with a client focus, Ciber assures your testing initiative establishes quality as a foundation for your development processes.

Ciber helps clients achieve higher quality through a combination of quick wins and incremental improvements, all while targeting long-term strategic goals. With Ciber’s reusable templates, methods and accelerators refined through hundreds of real-world engagements and frameworks to promote speed, reuse, ease of maintenance and rapid defect isolation, Ciber ensures measurable results and a focus on continuous improvement.