

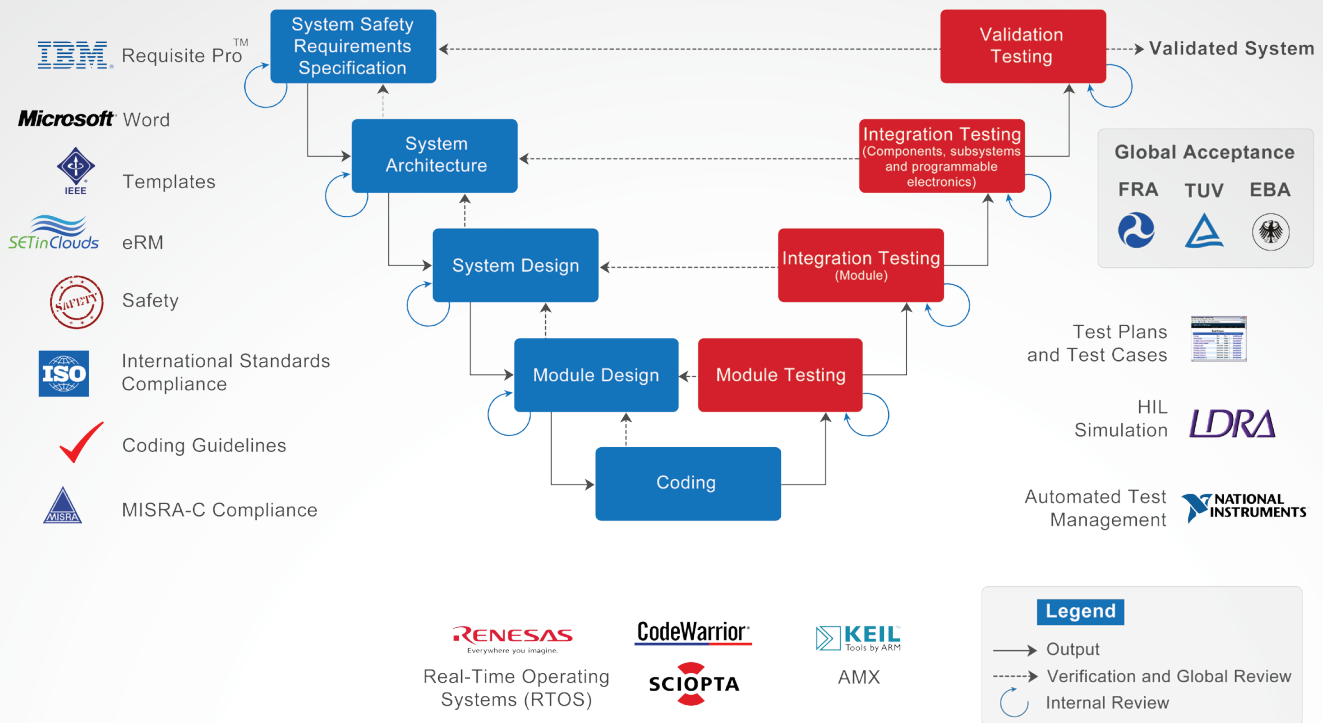


# Independent Quality Assurance

Your true outsourcing partner in  
consistently delivering quality products

Testing, that's all we do

*Trust*  
*Excellence*  
*Transparency*  
*Flexibility*



SQA Consultant is an independent Quality Assurance consultant group offering end to end quality assurance services focusing on delivering value at each step of the software development process.

SQA Consultant acts as a Testing Center of Excellence where knowledge, skills, tools and processes are shared among projects. With this integrated approach towards quality testing, we have devised processes to get a product's quality right the first time. Our clients leverage our expertise and experience to achieve higher efficiency and better quality.

Leading names in the rail, gas detection, mining, material handling, power, health care, education and Ecommerce industries engage us for a variety of services ranging from software testing, complete SDLC verification, and agency approvals. Acting as an independent consultant or an extension of your team, at SQA Consultant provides the best value to offer.

SQA Consultant advantages	Value for your business
1. Dedicated testing team	1. Get absolutely independent and free from bias QA
2. Excellence in using latest technologies	2. Be the first to market with our faster, better, and cheaper services
3. Transparency and relationship management	3. Access critical information, professional documentation, and QA reports
4. Personal touch	4. Choose from the on-demand, managed, or end to end QA models

SQA Consultant offers the following services

- » Requirements Analysis
- » Test Management
- » Agency Approvals
- » Functional Testing
- » Static and Dynamic Analysis
- » Big Data Testing
- » Compatibility Testing
- » Mobile Testing
- » Performance Testing
- » Security Testing
- » Test Automation



## Case Study

### Radio remote control locomotive

The project was for Multinational Company working as a market leader in the radio remote controlled locomotives industry. The product was a radio remote control system to control locomotives using a dual CPU architecture. The highly safety-critical embedded application was used in the rail transportation industry and complies to **EN-50128 SIL 3 system**.

The product being extremely complex and the requirement for **SIL3**, testing techniques used were far from conventional. White box testing was a major part of the tests along with functional tests and error seeding. Also for compliance, standard documentation had to be performed along with verifying the complete software development process.

The client was able to leverage SQA Consultant's expertise in standard compliance including sophisticated white box testing techniques using tools like **LDRA and McCabe**. Successful completion of the project was achieved including approvals from safety agencies. The SQA Consultant's team ensured on time completion of the project within a cost effective budget.



## Goals of the project



The SQA team will fulfill the role of an 'independent verifier and validator'

Get the product approved for SIL 3 as per EN50128 standard

Co-ordinate with the safety authorities (EBA and TUV) to certify for SIL 3



# Case Study

## Gas detection devices & data monitoring

A gas detection company used an application to help its clients monitor their gas detection fleet. Not only did the web based application gather maintenance data, but also was used to perform various configurations and tests on the gas detection instruments. The 200 plus page web application had very frequent major releases with features being updated / implemented across the application.

SQA Consultant was operating as an extension to the existing SQA team of the company. Responsible for testing this application, the team prepared automation framework and suite to automate 3000 plus test cases.

By automating the test cases, regression testing was performed through automated scripts while manual testers could focus on more vulnerable areas and performing exploratory testing around them. SQA Consultant was able ensure backward compatibility of the application, providing an infrastructure which was both scalable and maintainable creating seamless transfer of information between teams and providing cost effective tests creating a great return on investment.



## Goals of the project

Automation results analysis

Browser compatibility testing

Manual testing

Requirements Review

Security testing

Test case writing

Test cases automation- QTP/UFT





## Contact Us

Explore ways to use our expertise in growing your business while establishing a valuable partnership with us.

Contact our consultants at:

Phone: +1.412.533.1700 (Ext: 585)

E-mail: [info@sqaconsultant.com](mailto:info@sqaconsultant.com)

Website: [www.sqaconsultant.com](http://www.sqaconsultant.com)