Software Quality Assurance Evaluation (SQAE)

As software undergoes maintenance and enhancement, it becomes brittle, complex, and susceptible to errors. Software quality teams can no longer afford to focus simply on removing errors; the fundamental software architectural issues of evolvability, portability, and maintainability are key to an organization’s capacity to survive and thrive.

MITRE has developed a Software Quality Assurance Evaluation (SQAE) methodology and framework geared specifically to providing insights about software quality from a comprehensive, life cycle engineering perspective. The SQAE methodology is designed to be tailored to the specific context and needs of an organization, while maintaining a comprehensive perspective on the risk areas in software-based systems.

The SQAE capitalizes on industry and government open-system standards, MITRE’s past work and experience in conducting over 160 assessments in this area, and modern software reverse-engineering analysis tools and code assessment technologies. The SQAE has been applied to more than 64 languages and over 120 million lines of code.

Applications

Software systems engineering, Software development

Benefits

Quicker response time for risk notification
Use in more than 60 languages
Tailored to specific business needs

Additional Information and Links

