

Maintainability

Qualification

What is it?

A brand new qualification from PEOPLECERT, developed in collaboration with the Software Impovement Group (SIG) to certify programmers who have the necessary skillset to produce high quality code.

Why was it developed?



Fact Sheel

The problem:

Bad code is bad for business.

High quality code is cheaper to maintain than low quality code. On the contrary, an average size system implemented with law quality code system can cost to an organization \$1M during the system's lifetime!*

* Deloitte University Press, Tech Trends 2014 - Inspiring Disruption



The solution:

Quality Software Development Qualification.

By training developers to write high quality code, an organization can avoid a build-up of techincal debt in its systems and thus can serve its needs better (e.g. faster time to market, faster bug-fixing and so on). Organizations can achieve this with qualified developers who know how to write high quality code.

\$500 Billion

global IT debt with a potential to double within the next couple of years Source: Andy Kyte, "Measure and manage your IT debt," Gartner, Inc., August 9, 2010 (last reviewed June 19, 2013)

PEOPLECERT

Software

52% of debugging effort is spent on complex defects which account for only

8% of all defects.

Source: Deloitte University Press, Tech Trends 2014 – Inspiring Disruption)



Source: Dennis Bijlsma, Miguel Alexandre Ferreira, Bart Luijten, Joost Visser: Faster issue resolution with higher technical quality of software. Software Quality Journal, 2012

How

- Set metrics-based standards: Ten guidelines that are clear, easy-to-follow, meaningful, and have high-impact on code quality
- **Train developers** to use these standards effectively: Through explanation, examples and exercises that are immediately applicable in the daily programming practice
- **Train teams** to organize their development process and quality control around these standards: Tools, techniques, practices to be applied by development teams to consistently produce high quality code.

Who is it for?

- Software developers with experience in Object Oriented technologies (e.g. Java, C#), wishing to learn how to create good quality code
- Software development teams who want to learn best practices to ensure they produce maintainable software

What are the certification levels?

Foundation

For all software developers

Advanced Coming soon

For leaders of software development teams

Target audience Job Titles

- Senior Decision Makers in Software Development
- Senior HR/L&D Roles: Director/Head of Recruitment, Head of Training, Head of Talent
- Programmers with experience in Object Oriented technologies

Exam details

- Exam currently available for Java and C#
- 75 questions, 2h duration
- Closed book

Expected background: 2 years of working experience in object-oriented programming language, or BSc in computer science or software engineering

Benefits

For Organizations

- High quality code is cheaper to maintain. Initial development benefits from high maintainability from day 1
- Sustainable business needs maintainable software: Time-to-market is lower with higher maintainability
- Software quality is not left to chance: Agreement on code level specifics to achieve high quality, maintainable software

For Individuals

- Software developers learn how to create high quality code
- Software developer teams can adopt best practices to produce maintainable software
- Software developers deliver demonstrably more value