Organizational Quality Practices Explained

QUALITY PRACTICES

TANTUS

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COURSE OBJECTIVES

1. Recognize the impact and cost of software defects
2. Understand what “Built-in Quality” means
3. Distinguish the 5 areas of quality practices in the Software Development Life Cycle
4. Identify ways to measure quality

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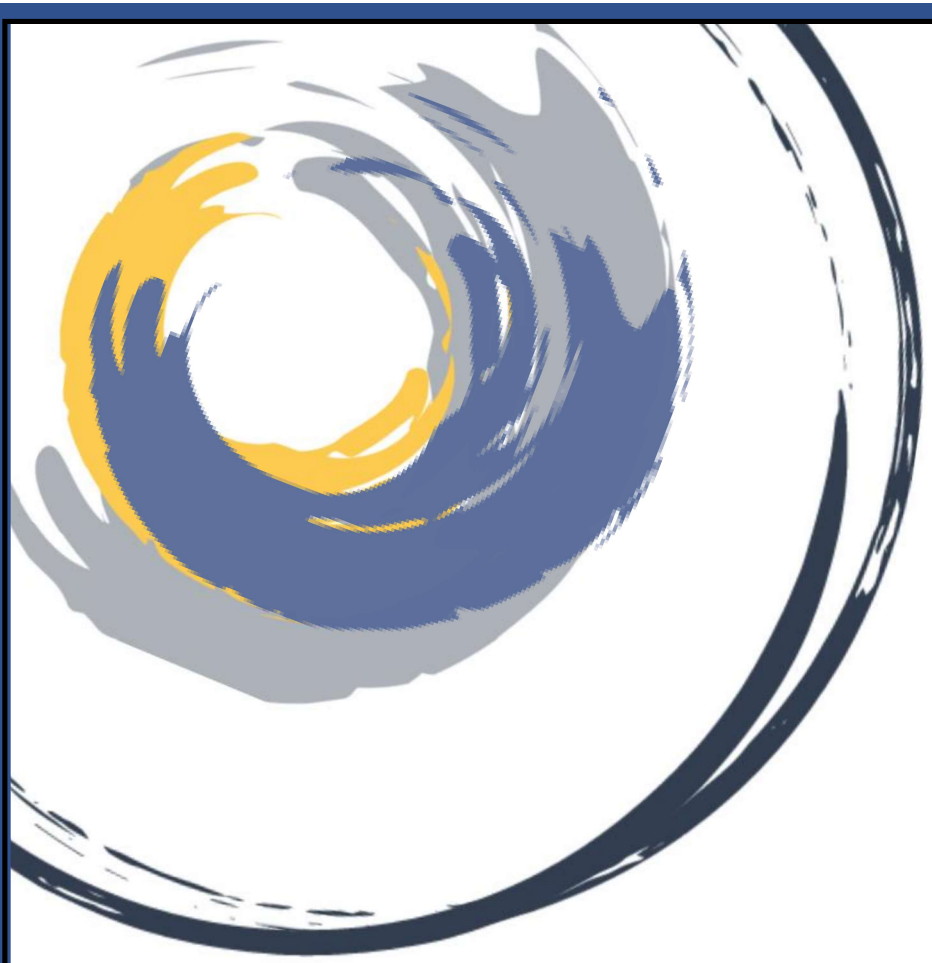
THE COST OF DEFECTS



Software archaeology
The study of poorly documented or undocumented legacy software implementations

In 2020, the estimated cost of fixing software defects was $2.08 trillion in the United States alone. In comparison, in 2020 the GDP was 20.89 trillion, making the cost of software bugs equivalent to nearly 10% of the GDP

The software wage base in 2020 was 1.4 trillion, making the cost of defects 1.3 times the total amount of software salaries paid in this country.

Boehm's Law
"The cost of fixing defects exponentially increases from the time of creation onward"

The Cost Of Defects

Organizations that do not adopt a "Built-In Quality" culture will continue to be part of the statistic that no one wants to be a part of

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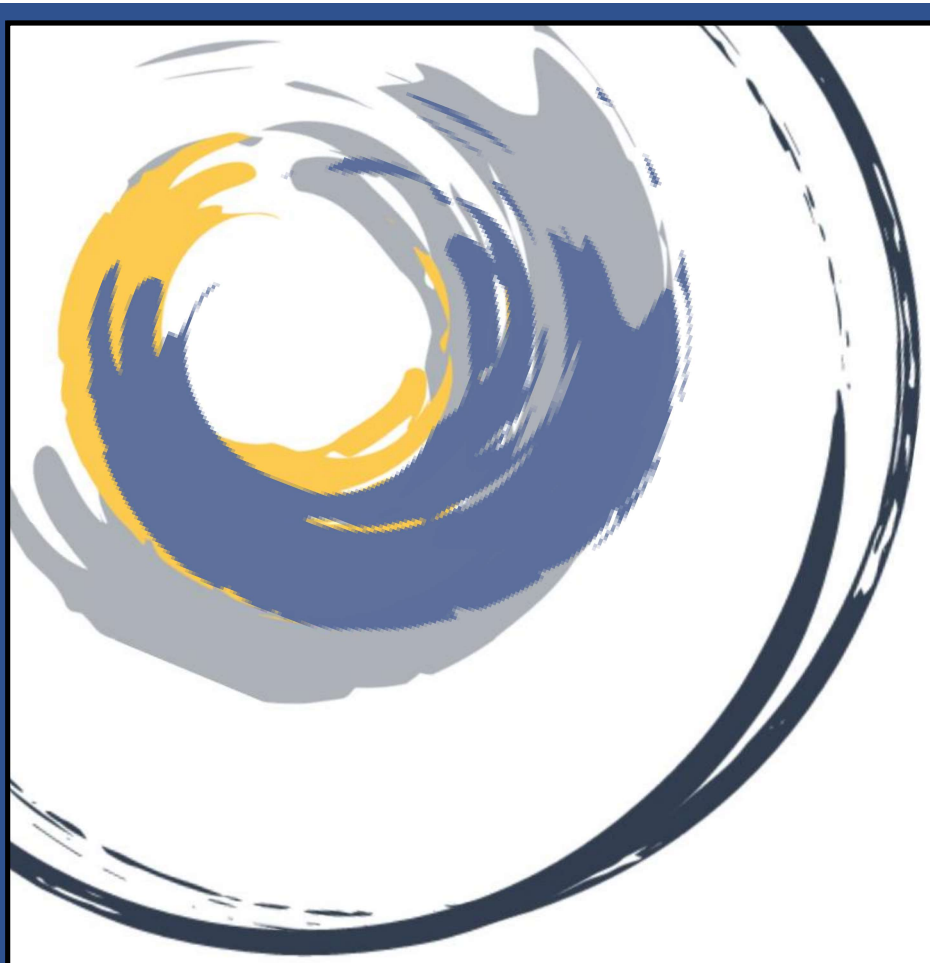

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- Quality Practices, Compliance, and non-functional requirements must be integrated into delivery practices
- Late validation phases do not ensure quality
- Late validation phases only confirm the quality of development value stream practices
- A culture of “never release known defects” must be part of the organization

BUILT–IN QUALITY