



Agile Development

Topic 6:

Project Management (Part 2 – Quality, Configuration Management , Testing)



Topic Coverage

This topic will cover:

- Quality and Configuration Management;
- Testing;



What is Quality?

“Fitness for Purpose”

Quality Control
(testing and rejection of
faulty products)

Quality Assurance
(definition of products
and quality criteria)



**Solution
Quality**



Process Quality

Quality Management and a QM system
(the feedback from QC & QA to improve
the process using a system of tools, techniques
and standards etc.)



Quality Assurance in DSDM

DSDM Quality Audit focuses on these key areas:

- Is business involvement sufficient?
- Is team really empowered?
- Is life-cycle being followed?
- Are products being produced?
- Is feedback from reviews being incorporated?
- Is backtracking possible?
- Are priorities being adhered to?
- Are timeboxes being respected?

Quality Management Steps

- Say what you are going to do.
- Do it.
- Demonstrate that you have done it.





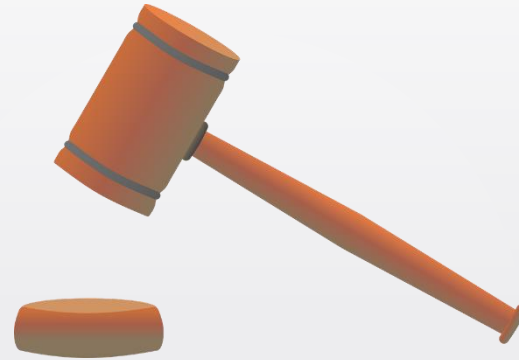
Quality Related Activities

Points to consider are:

- Inspection and review against product descriptions
- Dynamic testing
- Static testing
- Review/demonstration of key prototypes

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What is Configuration Management ?





What is Configuration Management? Cont.

Configuration management is the process of:

- Identifying and defining configuration items (CIs) of a system;
- Controlling release and change of CIs throughout the lifecycle;
- Recording and reporting status of CIs and change requests;
- Verifying completeness and correctness of CIs;

What is Configuration Management? Cont.

- Change Control: the set of formal procedures which record and enable changes to configuration items.



Configuration Management

- **Why is CM necessary?**

- Iteration implies change, which must be managed
- Changes must be reversible - version control
- Solution developers need to be confident of right version

- **What is a CM Champion?**

- Tech. Co-ordinator?
- Within team



Configuration Management Strategy

- **Baselining:** a snapshot at a point in time
- **Continual integration**
- **Baseline prototypes:**
 - Before demonstration
 - After approval
- **Baseline:**
 - Daily?
 - After each item unit-tested?
 - End of development timebox (at minimum)





Metrics in DSDM

- Used to measuring agile success
- ❑ Business metrics: help to analyze if the solution is meeting the requirements
- ❑ Agile metrics: help in the analysis of the development process

Some agile metrics:

- ✓ Sound agile metrics
- ✓ State of Agile Survey
- ✓ Product quality
- ✓ Project visibility

Agile Testing Concepts

- Collaborative
- Repeatable
- Prioritized
- Risk-based
- Independent
- Test-driven
- Fail fast
- End-to-End Experie





Group Exercise: Using the Key Techniques in Testing

- In groups, describe how the below techniques
- could help in testing in an Agile (DSDM) project:
 - Modelling
 - MoSCoW Prioritisation
 - Facilitated Workshops



Summary of the Topic

The topic has covered:

- Quality
 - What is quality?
 - Configuration management
 - Baselining
 - Metrics
- Testing



End of Topic

Thank You 😊



More reading Resources

- Measuring Agile Success, Idexcel Technologies

<https://www.idexcel.com/blog/measuring-agile-success/> (Last accessed 20th October 2020)