



# 15 BEST ANSWERS TO AGILE

## **Why you need AGILE?**

Agile certification is the new cool now. It is helping the companies to manage the complexities within a framework to maximize the value and the success of the agile development activities. It is highly in demand and has replaced all the traditional methods. Henry Harvin has helped software organizations of all sizes succeed through world-class Agile, lean and product education and consulting. A world where other companies claim – ONE SIZE FITS ALL- approach, Henry Harvin works hard along with you to shape the best in you and gives attention to individuals. They make learning easier.

## **What is Agile?**

Agile is faster, easier, and smarter with expert training and coaching. Agile process management refer to iterative and incremental method of managing the design and build activities for engineering, info tech, and other business areas that aims to provide new product or service in a highly flexible and interactive manner-Example- SCRUM etc. It is even open to non- tech students. Agile Testing is a practice that a QA follows in a dynamic environment where testing requirements keep changing according to the customer needs. It is done parallel to the development activity where testing team receives frequent small codes from the development team for testing.

## WHY AGILE?

Hey tech-savvy.... We are sure you are in a dilemma about which course to choose, which direction to go. Just take a deep breath, we know you have a lot of work pressure – we know the mental turmoil you are going through. WORK. WORK. WORK. WORK. - that must be reminding you “Riri’s new track!!!” Yes... go on...play this music in the background, and read this article especially designed for you. So work is huge, heart desires a shortcut... but will that be correct, will anyone judge me? Will it be worth it, should I follow the old method only or the new agile..... and lots more. WHY FEAR, WHEN WE ARE HERE!!!

## AGILE METHODOLOGIES...

There are various methods present in agile testing, and those are listed below:

### **eXtreme Programming (XP)**

Extreme Programming technique is very helpful when there is constantly changing demands or requirements from the customers or when they are not sure about the functionality of the system. It advocates frequent "releases" of the product in short development cycles, which inherently improves the productivity of the system and also introduces a checkpoint where any customer requirements can be easily implemented. The XP develops software keeping customer in the target.

## Crystal Methodologies

Crystal Methodology is based on three concepts:

**Chartering:** Various activities involved in this phase are creating a development team, performing a preliminary feasibility analysis, developing an initial plan and fine-tuning the development methodology

**Cyclic delivery:** The main development phase consists of two or more delivery cycles, during which the

Team updates and refines the release plan

Implements a subset of the requirements through one or more program test integrate iterations

Integrated product is delivered to real users

Review of the project plan and adopted development methodology.

**Wrap Up:** The activities performed in this phase are deployment into the user environment, post- deployment reviews and reflections are performed.

## Dynamic Software Development Method (DSDM)

DSDM is a Rapid Application Development (RAD) approach to software development and provides an agile project delivery framework.

The important aspect of DSDM is that the users are required to be involved actively, and the teams are given the power to make decisions. Frequent delivery of product becomes the active focus with DSDM. The techniques used in DSDM are

Time Boxing

MoSCoW Rules

Prototyping

The DSDM project consists of 7 phases

Pre-project

Feasibility Study

Business Study

Functional Model Iteration

Design and build Iteration

Implementation

Post-project

## **Feature Driven Development (FDD)**

This method is focused around "designing & building" features. Unlike other agile methods, FDD describes very specific and short phases of work that has to be accomplished separately per feature.

It includes domain walkthrough, design inspection, promote to build, code inspection and design. Feature Driven Development develops product keeping following things in the target

Domain object Modeling

Development by feature

Component/ Class Ownership

Feature Teams

Inspections

Configuration Management

Regular Builds

Visibility of progress and results

## **Lean Software Development**

Lean software development method is based on the principle "Just in time production". It aims at increasing speed of software development and decreasing cost. Lean development can be summarized in seven steps.

Eliminating Waste  
Amplifying learning  
Defer commitment (deciding as late as possible)  
Early delivery  
Empowering the team  
Building Integrity  
Optimize the whole

## **Kanban**

**Kanban** originally emerged from Japanese word that means, a card containing all the information needed to be done on the product at each stage along its path to completion. This framework or method is quite adopted in software testing method especially in agile testing.

## **WHAT IS SCRUM? WHAT IS ITS ROLE UNDER AGILE?**

**Scrum** is an agile way to manage a project, usually software development. Agile software development with Scrum is often perceived as a methodology; but rather than viewing Scrum as methodology, think of it as a framework for managing a process. **YOU KNOW YOU NEED MANAGEMENT EVERYWHERE.**

Scrum is the most famous methodology of agile! There are mainly three roles that a Scrum team has:

**Project Owner** – who has the responsibility of managing product backlog. Works with end users and customers and provide proper requirement to the team to build the proper product.

**Scrum Master** – who works with scrum team to make sure each sprint gets complete on time. Scrum master ensure proper work flow to the team.

**Scrum Team** – Each member in the team should be self-organized, dedicated and responsible for high quality of the work.

### **Process flow of Scrum:**

Process flow of scrum testing is as follows:

Each iteration of a scrum is known as Sprint

Product backlog is a list where all details are entered to get end product

During each Sprint, top items of Product backlog are selected and turned into Sprint backlog

Team works on the defined sprint backlog

Team checks for the daily work

At the end of the sprint, team delivers product functionality.



In agile projects, it is everyone's (developers, quality assurance engineers, designers, etc.) responsibility to manage the project to achieve the objectives of the project.

In addition to that, the agile project manager plays a key role in agile team in order to provide the resources, keep the team motivated, remove blocking issues, and resolve impediments as early as possible.

In this sense, an agile project manager is a mentor and a protector of an agile team, rather than a manager.

### **In brief:**

**Scrum:** In the scrum, a sprint is a basic unit of development. Each sprint is followed by a planning meeting, where the tasks for the sprint are identified and estimated. During each sprint, the team creates finished portion of a product.

**Agile:** In Agile, each iteration involves a team working through a full software development cycle, including planning, design, coding, requirement analysis, unit testing, and acceptance testing when a product is demonstrated to stakeholders .In simple words, Agile is the practice and scrum is the process to following this practice.

## 9 Agile quality strategies are...

Re-factoring

Non-solo development

Static and dynamic code analysis

Reviews and Inspection

Iteration/sprint demos

All hands demo

Light weight milestone reviews

Short feedback cycles

Standards and guidelines

WE, HENRY HARVIN WISH YOU A VERY HAPPY DECISION MAKING PROCESS. WE HOPE WE WERE ABLE TO HELP YOU COVER ALL THE LOOPHOLES, WHICH HAD THE QUEST TO GET SOLVED. BE QUICK, BE AGILE!

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# STILL HAVE DOUBTS ?

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can benefit you ?

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