



## Learning Objectives of CP-AAT

---

*“Knowledge with experience is power; certification is just a by-product”*

### What is CP-AAT?

CP-AAT stands for “Certified Practitioner - Automation Agile Testing” certification prepared and honored by “Agile Testing Alliance” & “University Teknologi Malaysia (UTM)”.

CP-MAT is the prerequisite for this next level of certification called CP-AAT. Alternatively you should be having at least 3 years of relevant experience in Testing and at least one year in an Agile project.

The course is applicable for all roles and not just “testers”. Knowledge, experience & certification is consciously designed to focus on “agile testing” and not on “agile testers”.

### How is it useful?

CP-AAT prepares you for utilizing automation effectively in an agile project. It helps you realize the tester’s role in planning and strategizing for Test Automation in an agile project. It gives you insight into the cost-benefit analysis, the opportunities and risks and the Agile team approaches to let the test-first strategy drive the quality goals of the projects. The course covers ATDD and TDD in an hands-on fashion using pairing techniques of XP. It also covers the real-life challenges that a tester would face while applying the strategies. All the concepts are driven using the case studies and actual test automation tasks involved in any live agile projects. The course introduces you to the automation tools such as JUnit, FitNesse and Selenium.



## CP-AAT

---

### **Am I Eligible?**

Anyone having more than 2 years experience in agile or testing is eligible for CP-AAT. If you have already done CP-MAT then you automatically qualify for this course provided you have 1 year experience.

### **Duration?**

CP-AAT is designed specifically for corporates and working professionals alike. If you are a corporate you can opt for either 5 half days course or 2 full days course followed by an examination. If you are a working professional opt for 2 full days course followed by an examination.

### **How do I enroll myself?**

You can enroll yourself [here](#).



# Learning Objectives of CP-AAT:

## 1. Need for Automation

### 1.1. Regression Testing

- Regression Strategy in Agile
- Factors Affecting Regression
- Automation of the regression suite

### 1.2. Test-First approach

- ATDD
- TDD

### 1.3. Automation Strategy

- Cost-Benefits Analysis
- Preparation for Automation
- Opportunities and Risks
- Test Automation Frameworks
- Tools evaluation and Pilot

### 1.4. Agile Teams

- Cross-functional Testers and Whole Team Approach
  - Energized work
  - Informative workspace
  - Root-cause analysis
  - Coding Standards
  - Iteration demo and reporting
  - Retrospective
- Independent/Specialist Testing Group
  - Right people, right thing
  - Test Hardening
  - Pairing
  - "Done" Done

### 1.5. Exercise / Game on Pairing

- Pairing exercise
- Retrospective

## 2. TDD

- Origins in XP
- The XP Lifestyle
- The XP Team, pairing
- XP Concepts
- Access to Agility
- Getting XP wrong



### 2.1. Introduce Quality Early

- Fail Fast, Fail Often
- High quality with TDD
- Test code-refactoring
- Developing in small increments
- Keeping code healthy with refactoring

### 2.2. TDD using JUnit

TDD using Junit for the given User Story

## 3. ATDD vs. TDD

- Jumpstarting FitNesse
- Wikibased, Tabulated Tests
- FIT and SLiM protocols
- Fixtures and Refactoring

### 3.1. Agile Practical - Sprint 1

FitNesse in action

ATDD using FitNesse for the given User Story

Retrospective

### 3.2. Running Fixtures

- Add logic and assertions to your test
- Exercise

### 3.3. Writing Fixtures using Selenium

- Drive web based application using Selenium
- Exercise

## 4. Selenium IDE

### 4.1. Save time by recording the scrip

### 4.2. Eclipse

- Configuring Eclipse for FitNesse and Selenium
- Running Tests as Fixtures

### 4.3. Agile Practical - Sprint 2

- Importing Selenium Tests as fixtures
- ATDD using FitNesse and Selenium for the given User Story
- Retrospective



### 5. Practical Agile Testing

#### Case Study

Practice all TDD and ATDD fundamentals throughout the course on a case study of a dummy project.