

# 1-day Live Online Training

 (2 - 8)



## Continuous Testing with BuildWise

*Learn with Zhimin Zhan*



**Author**  
of 9 test automation books

**Speaker**  
at intl testing conferences

**Winner**  
of intl software award



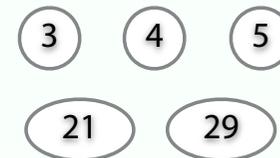
**Practical  
Effective  
Hands-on  
Fun!**

# Instructor: Zhimin Zhan

**Author** of 9 books on test automation and Continuous Testing



*Rankings as of 2019-06*



**Speaker** at international software testing conferences, incl. StarWEST

**Winner** of the runner-up prize at 10th Ruby Award (Japan, 2018)



**Creator** of highly acclaimed TestWise and BuildWise

Developing/maintaining automated tests on a daily basis **since 2006**

# Objective

Participants feel confident to set up BuildWise CT server to execute Automated UI/API tests, with the knowledge of:

- How CT works in a real DevOps process
- Install and Set up BuildWise CT Server
- Sequential and Parallel Build setup
- Best practices to fix failed tests detected in CT
- Auto-Retry to reduce false alarms
- Dynamic test execution ordering
- Delay completion, Manual-rerun, ..., etc

Test scripts used during the training are 100% pure Selenium WebDriver.

# || Audience

## Main Audience

- 📌 Test Automation Engineers (SET)
- 📌 Manual Testers
- 📌 Software/DevOps Engineers
- 📌 Managers

As Continuous Testing is essential in Agile/DevOps, others members of a software team will find it useful too:

- 📌 Business Analysts
- 📌 Tech. executives

# Teaching Method

We use Zoom for our Live Online Training.

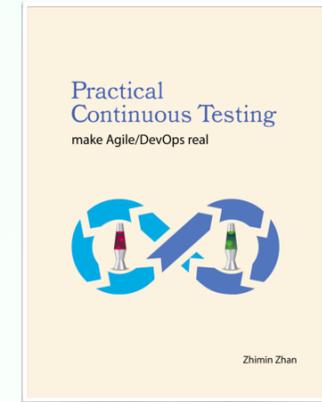
Training will be delivered in a mixture of the followings:

- 🎤 Presentation
- 🎤 Video demonstrations
- 🎤 Live demonstrations
- 🎤 Hands-on exercises, participants set up and manage test executions in CT server, under the instructor's mentoring
- 🎤 Q & A

Screen sharing and remote control (in Zoom) are used.

# Proven Content

Zhimin has been conducting CT for clients and his own highly-claimed apps since 2010. He has summarised his experiences into a highly acclaimed book: "[Practical Continuous Testing](#)".



## Test Scripts used

- 📌 100% pure Selenium WebDriver

## CT Skills & Techniques

- 📌 Set up BuildWise CT Server
- 📌 Sequential and Parallel Build setup
- 📌 Auto-Retry to reduce false alarms
- 📌 Dynamic test execution ordering
- 📌 Delay completion, Manual-rerun, ..., etc

# Tools and Material Provided



Software:

**BuildWise Server**  
**BuildWise Agents**



eBook:



Training Slides (PDF)

online bookings

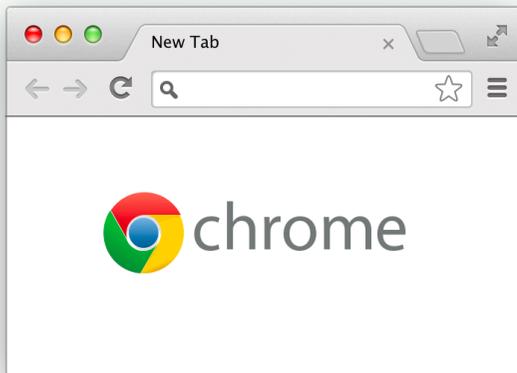
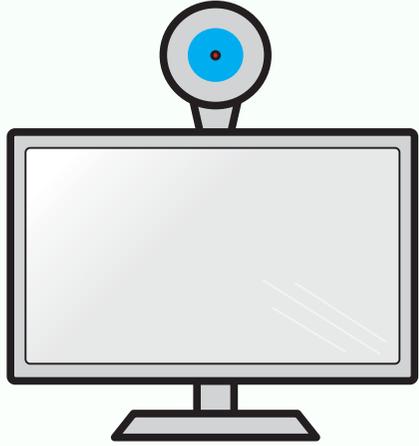
**BONUS**

2 x 3-month  
BuildWise Agent license  
valued at US\$180

*(BuildWise Server is free)*

“Practical Continuous Testing”  
eBook valued at US\$15

# What do you need on the training day?



# Content <sup>^</sup> (highly interactive)

Duration: 8 hours

## Video: Continuous Testing in Action? (~5 min)

- Run a set of End-2-End tests in CT server

## Introduction

- Why most CI/CD and DevOps attempts failed?
- Demystify CI/CD, Continuous Testing & DevOps

## Hands-on (~30 min)

- Install Ruby, ChromeDriver and test libraries
- Run tests from command line
- Set up own BuildWise server (demo) from scratch

## Hands-on (~20 min)

- Create a new Git repository with selenium tests
- Create your own new build project and run it!

## CT in Nutshell

- Build targets
- Understand CI server's work directory

## Fix a broken build (~30 min)

- Understand source update (Git)

## Sequential Build practices

- Custom test execution via Environment Variables
- Intelligent ordering, ...

## Build Scripts - the Magic

- Build targets
- Custom build with Rakefile

## Hands-on (~30 min)

- Install MySQL server
- Start BuildWise Server in production mode

## Demo & Hands-on (~45 min)

- Set up multiple build agents
- Create a parallel build project, and run it!

## Parallel Build best practices *(with Demo)*

- Dynamic ordering
- Auto & Manual retry

## General CT features *(with Demo)*

- Reporting, Notification, Scheduling, Artefacts
- Traceability Matrix, Execute triggered via Web

## Advice

- Common CT failures: automation, human & execution
- How to win CT?
- Execute tests in other frameworks

## Large scale test automation

- Set up and grow a build farm

## Q & A

<sup>^</sup> the actual content may change to suit attendants

# Provide your info to help us prepare

- Your machine's OS, Windows or macOS?
- Your preferred name for complimentary BuildWise Agent License  
*For group booking, please provide names of all participants  
(Online bookings only)*

## Set up a build project to run your own tests in BuildWise\*

- A small set of automated UI/API tests in following syntax frameworks:  
RSpec, Cucumber, PyTest or Mocha.

*\* this activity only occur when time permits*

# 1-day Live Online Training

## Practical Continuous Testing



*For more information and make a booking*

*<http://testwisely.com/training/continuous-testing>*

*Any enquires, please contact [support@agileway.com.au](mailto:support@agileway.com.au)*