



**LONDON SCHOOL
OF EMERGING TECHNOLOGY**



SOFTWARE AUTOMATION TESTING

COURSE ID

SAT

DEPARTMENT

SOFTWARE
ENGINEERING

CAMPUS

1 CORNHILL

LEVEL

CERTIFICATE

METHOD

LECTURE + PROJECT

DURATION

3 MONTHS

The world is moving towards Automation more rapidly than you think. With large complex software applications coming into the market, the industry is now emphasising using Automated Testing over the manual. Prepare yourself for the next trend in software testing and secure a high-paying job as Automated Tester.

**APPLY
NOW!**

Apply now to become a professional **Software Automation Tester**



Add on



Add on




1



www.lset.uk

+44 (0) 20 3369 9909

PREREQUISITES HAVE BEEN MET

Options	Topic	Add-On	Duration
Option 1	Software Automation Testing (Prior Knowledge of Java Required)		3 Months
Option 2	Software Automation Testing (Prior Knowledge of Java Required)	 Project	5 Months
Option 3	Software Automation Testing (Prior Knowledge of Java Required)	 Project &  Industrial Training and Paid Internship Program	12 Months

PREREQUISITES HAVE NOT BEEN MET



Options	Topic	Add-On	Duration
Option 1	Java + Software Automation Testing		4 Months
Option 2	Java + Software Automation Testing	 Project	6 Months
Option 3	Java + Software Automation Testing	 Project &  Industrial Training and Paid Internship Program	13 Months

The LSET Software Automation Testing course focuses on building your skillsets with the latest testing techniques and tools. This course will teach black-box and white-box testing, automated testing, web & mobile testing, and formal testing theory and methods.

In this course, you will get introduced to Selenium IDE, RC, WebDriver and Data Driven Testing. This course will prepare you to implement your automation testing framework and build test plans, test suites, and test analysis reports. You will develop properties and assertions in code to facilitate automated test generation and create pre-conditions for methods to enable formal proof of correctness.

The course will begin with fundamental principles and processes of software testing. And then move on to creating test cases and running them using an automated testing tool. You will build an understanding of various black-box and white-box testing techniques and put this understanding into practice, creating practical sets of test cases called test suites to correctly exercise software for defect finding. By the end of this course, you will have a greater understanding of testability requirements and build skillsets for automated testing along with fault-finding techniques.



TECHNOLOGIES COVERED

Selenium Automation Tool: Selenium is a popular open-source automated testing suite for web applications across different browsers and platforms. It provides a single interface which allows writing test scripts in various programming languages like Ruby, Java, NodeJS, PHP, Perl, Python, and C#, among others. It comes with Selenium WebDriver, also known as Selenium 2.0, which executes test scripts through browser-specific drivers. It consists of API, Library, Driver, and Framework.

Cucumber: Cucumber is an open-source software testing tool allowing us to run automated acceptance tests in a behaviour-driven development (BDD) style. Cucumber reads the specifications written in plain English text files called feature files. It scans them for test scenarios and runs those scenarios against the software we want to test. The feature files must follow a set of rules called Gherkin. Gherkin is a business-readable, domain-specific language that you use to provide test steps and expected outcomes to Cucumber.

JUnit: JUnit is a unit testing framework for the Java programming language widely used for test-driven development. JUnit is used to write and run repeatable automated tests.

JOB GUARANTEE

Job Guarantee is an add-on program you can register with this course. You will need to clear an assessment interview to get enrolled. Once successful in the assessment, you will be offered Job Guarantee with this certificate course. There is a fee to join this program as it takes you to rigorous career development, interview preparation, mock interviews, etc. The fee for joining the Job Guarantee add-on program is £500. This is a 12 months program which starts at the end of your certificate course. As part of this program, we represent you to the prospective employers and train on career development elements...

You need to abide by the rules of this program which you can find on the Job Guarantee page. If we can't find you a relevant job or you don't find it by yourself in the similar industry in any part of the world within these 12 months, we will refund you the course fee + Job Guarantee program fee. The refund process will start after the end of the 12 months and every month we will pay £500 until the entire fee is paid back. But if you find a relevant job during this time then the remaining payments will be stopped. This program is only applicable to home students (UK permanent residents / citizens).

INDUSTRIAL TRAINING

LSET offers an optional add-on industry training program to its students. Students wishing to enrol in this program require to pay fee of £2000 to receive training from industry experts at IT companies in the US or UK. This is a month-long program which takes place at the host company's location. Interested students need to go through an assessment and host company's interview process to be accepted in the program.





COMPLEMENTARY WORKSHOPS



GIT MANAGEMENT



AGILE PROJECT
MANAGEMENT



TEAM BUILDING



PERSONALITY
DEVELOPMENT



INTERVIEW
PREPARATION

COURSE INFORMATION



SEPTEMBER
DECEMBER



JANUARY
APRIL



MAY
AUGUST

ENTRY CRITERIA

- ✓ Prior knowledge of Java is required
Or Java Programming Certificate
- ✓ Basic Understanding of English
- ✓ Basic Proficiency with Computers
- ✓ Ability to work in Group

COURSE HIGHLIGHTS

- ✓ Hands-on Sessions
- ✓ Project-based Learning
- ✓ Live or Offline Capstone Project
- ✓ Real world development experience
- ✓ Industry Mentors
- ✓ Interactive Teaching Methodologies

EVALUATION CRITERIA

- ✓ 18 Coding exercises
- ✓ 5 Assignments
- ✓ 5 Quizzes
- ✓ Capstone Project
- ✓ Group activities
- ✓ Presentations



LEARNING OBJECTIVES

- ✓ Learn to distinguish between verification and validation
- ✓ Learn to write automated functional tests for both front-end and back-end code
- ✓ Learn to use mutation testing to measure the fault-finding effectiveness of a functional test suite
- ✓ Learn to evaluate the testability of requirements and define testable units within a program specification
- ✓ Learn to use appropriate test terminology in communication like test fixture, logical test case, concrete test case, test script, and fault
- ✓ Learn to do white and black box testing
- ✓ Learn the concepts of test-first and test-last development techniques
- ✓ Learn the concepts of expected-value (true), heuristic, consistency (as used in A/B regression), and probability test oracles
- ✓ Learn to write unit and integration test cases to detect defects



WEEKDAYS BATCH
5:30 pm - 7:30 pm
(Wed, Thu, Fri)



WEEKENDS BATCH
9:00 am to 12:00 am
(Sat, Sun)



INTERVIEW PREPARATION
Wednesday (4 Workshops)



HANDS-ON WORKSHOPS
Thursday
(2 Workshops)



PERSONALITY DEVELOPMENT
Friday (1 Workshop)



HANDS-ON WORKSHOPS



**INTERVIEW
PREPARATION**



**CV
PREPARATION**



**PERSONALITY
DEVELOPMENT**

Join the Software Automation Testing Certificate course to learn the current state-of-the-art techniques of web and mobile application test automation. LSET teaches this course in a project-based environment that lets you explore real-world applications.

COURSE CONTENT

Browse the LSET interactive and practical curriculum

INTRODUCTION

- ▶ Course Introduction
- ▶ How to make the best of this course
- ▶ GIT Introduction and Setup
- ▶ Course Induction
- ▶ Automation Testing vs Manual Testing

MANUAL SOFTWARE TESTING

- ▶ Introduction
- ▶ Terminologies used in Testing
- ▶ How to Write Testcases
- ▶ Principles of Testing
- ▶ Test Process Steps
- ▶ Level of Independence in Testing
- ▶ Levels of Testing
- ▶ Software Testing Models



AGILE & JIRA

- ▶ Introduction
- ▶ Introduction to Agile
- ▶ Jira Components
- ▶ Jira Search
- ▶ Customizations
- ▶ Real End to End Jira Project Flow
- ▶ Admin Settings – Creating user & groups
- ▶ Admin Settings – Handling Global access & use cases
- ▶ Handling Permissions
- ▶ Customizations & Components

WEB AND MOBILE TESTING

- ▶ Introduction to Web and Mobile Testing
- ▶ Challenges in Web and Mobile Testing
- ▶ Understanding XML and HTML
- ▶ Using Firefox Developer Tool

FUNCTIONAL AND NON-FUNCTIONAL WEB AND MOBILE TESTING

- ▶ Web Test Planning
- ▶ Understanding Minimal Essential Test Strategy (METS)
- ▶ Using METS for Time Budgeting
- ▶ Understanding Representational State Transfer (REST)
- ▶ Introduction to XPath
- ▶ Introduction to Security Testing
- ▶ Security Testing Techniques
- ▶ OWASP Top Ten Risks Overview
- ▶ OWASP Top Ten Security Risks
- ▶ Fuzz Testing
- ▶ Introduction to Performance Testing

BLACK AND WHITE-BOX TECHNIQUES

- ▶ Understanding Black and White box techniques
- ▶ Understand testing coverage like code, segment, etc
- ▶ Steps to Perform BBT and WBT
- ▶ Types and Techniques
- ▶ White Box and Black Box Testing Examples
- ▶ Mutation Testing Strategies
- ▶ Test Metrics and Test Suite Effectiveness

REQUIREMENTS-BASED TESTING

- ▶ Writing Requirements for Testability
- ▶ Bad Requirements for Testability
- ▶ Writing Test Cases for Requirements
- ▶ "Fixed" Requirements for Testability
- ▶ Introduction to User Stories and Behaviour-Driven Development

JAVA BASIC

- ▶ >> Introduction
- ▶ >> Install
- ▶ >> Syntax
- ▶ >> Object-Oriented
- ▶ >> Comments
- ▶ >> Variables
- ▶ >> Data Types
- ▶ >> Type Casting
- ▶ >> Operators
- ▶ >> Strings >> Math >> Booleans
- ▶ >> If ... Else



- ▶ Switch
- ▶ While Loop
- ▶ For Loop
- ▶ Break and Continue
- ▶ Arrays
- ▶ Collections

UNIT TESTING WITH JUNIT

- ▶ Introduction to Junit
- ▶ Introduction to Junit
- ▶ Setting up Junit
- ▶ Running Test Cases
- ▶ Exclude/Include Test Cases
- ▶ Running Test Cases with Regex
- ▶ Parameterized Test

SOFTWARE AUTOMATION

- ▶ Advantages & Limitations of Automation Testing
- ▶ Test Automation for Web Applications

CUCUMBER AND GHERKIN

- ▶ Introduction to Cucumber
- ▶ Working of Cucumber and Gherkin
- ▶ Regular Expressions and Testing with Cucumber



BLACK AND WHITE BOX TESTING WITH CUCUMBER

- ▶ Mapping User Stories: the Microwave Example
- ▶ Installing Cucumber and Configuring IntelliJ Project
- ▶ Creating Gherkin Scenarios and Step Definitions
- ▶ Using Lists
- ▶ Using Data Tables
- ▶ Working with Scenario Outlines and Examples
- ▶ Cucumber and Code Coverage

SELENIUM TESTING SUIT

- ▶ Introduction to Selenium
- ▶ Selenium IDE
- ▶ Selenium Grid
- ▶ Selenium RC
- ▶ Web Driver

SELENIUM-IDE

- ▶ Installing Selenium IDE
- ▶ Building and Running Test Cases
- ▶ Using Base URL to Run Test Cases in Different Domains
- ▶ Debugging
- ▶ Multi Language Formats
- ▶ Using Test Suites
- ▶ User Extensions – Extending the IDE's functionality

SELENIUM COMMANDS

- ▶ Locating Elements
- ▶ The AndWait Commands
- ▶ Verifying Page Elements
- ▶ JavaScript and Selenese Parameters
- ▶ Alerts, Popups and Multiple Windows
- ▶ echo – The Selenese Print Command
- ▶ The waitFor Commands in AJAX applications
- ▶ Sequence of Evaluation and Flow Control
- ▶ Store Commands and Selenium Variables

POSTMAN

- ▶ Introduction
- ▶ Sending API Requests
- ▶ Collections
- ▶ Variables
- ▶ Scripts
- ▶ Mock Servers
- ▶ Postman API

DATA DRIVEN TESTING

- ▶ Maintainability and Reusability
- ▶ Work with Excel Data
- ▶ Install client driver for Excel
- ▶ Accessing local or remote Database
- ▶ Handling Forms in HTML
- ▶ Data Driving in Selenium with Excel files
- ▶ Data Entry Automation
- ▶ Page Object Model



SELENIUM GRID

- ▶ Introduction to Selenium Grid
- ▶ Installing and running Selenium Server
- ▶ Setting up Selenium Grid
- ▶ Grid as Collection of RC Servers
- ▶ Selenium Server Architecture
- ▶ X-PATH and Different Techniques
- ▶ X-Path Absolute
- ▶ X-Path Relative
- ▶ X-Path finder tools

SELENIUM WEBDRIVER

- ▶ Use of WebDriver
- ▶ WebDriver drivers
- ▶ Writing WebDriver scripts
- ▶ Understanding WebDriver Commands
- ▶ Running Tests on Edge, Firefox & Chrome
- ▶ Reporting & Verifying Results
- ▶ Debugging Selenium Tests

IMPLEMENTING TEST FRAMEWORK WITH PAGE OBJECT MODEL

- ▶ Introduction to Page Object and Page Factory
- ▶ Factory in Selenium
- ▶ Elements Abstraction Layers
- ▶ Implementing test frameworks
- ▶ Create Page Objects and Page Factory Usage
- ▶ Execute the Test

*Modules of our curriculum are subject to change. We update our curriculum based on the new releases of the libraries, frameworks, Software, etc. Students will be informed about the final curriculum in the course induction class.

ASSESSMENT CRITERIA

To earn the certificate, students must clear all the assessments, quizzes, and project work. At a minimum, students are required to satisfy the pass criteria of the course. Students who score 75% or more will be awarded Merit Grade, while students with 85% or more will be awarded, Distinction Grade.

Following are the detailed criteria for each level

Pass Grade Criteria

Score a minimum of 50% aggregate and demonstrate the following;

- Proficiency in the technical skills and techniques
- Must have a minimum attendance of 90% in the classes unless proper medical proof is provided
- Submit all the projects and assignments before the last submission date
- Collaborate with peers in group projects



Merit Grade Criteria

Score a minimum of 75% aggregate and demonstrate the following;

- Excellent technical skills and techniques
- Discover and apply strategies to find the perfect solutions
- Select/design and use appropriate methods/techniques
- Present and communicate appropriate findings



Distinction Grade Criteria

Score a minimum 85% aggregate and demonstrate the following;

- Mastery of technical skills and techniques
- Use critical thinking for self-evaluation and justify valid conclusions
- Take the responsibility the manage and organise activities and teams
- Showcase convergent/lateral/creative thinking.



ASSESSMENT METHODS

LSET follows strict uniform standards in assessing students' performance during the certificate course. This ensures that the LSET certificate holders demonstrate high ethics and deep technical knowledge. Internal and external examiners will assess the students, while the platform will automatically evaluate the quizzes. Instructors are internal examiners who only assess students' soft skills. At the same time, the external examiners are responsible for assessing students' assessments and project work.

Internal Evaluation

Instructors only evaluate students on the following, contributing to 20% of the total score. The total points that can be earned are 100.

- **Punctuality [10 points]:** Students are expected to show punctuality with their attendance, presence, and project/assignment submission time.
- **Dedication [10 points]:** LSET expects the students to give attention and show dedication throughout the curriculum.
- **Time Management [10 points]:** Students should show good time management by completing and submitting their assignments on time. Time management is crucial for students to prepare for the real work environment.
- **Attendance [10 points]:** Minimum of 90% attendance is required unless a proper reason with evidence is provided. Attendance in LSET classes is important to ensure that the student has thoroughly learned the technical and non-technical concepts taught in the curriculum.
- **Working with Others (Teamwork) [10 points]:** LSET teaches concepts in a collaborative environment where we expect each student to show teamwork and collaboration skills.



- **Problem-Solving Skills [10 points]:** Students must demonstrate proper problem-solving skills. Students need to use the knowledge and skills gained in the course to solve real-world problems.
- **Class Participation [10 points]:** Engagement and participation are crucial to ensure the interactive learning experience.
- **Communication Skills [10 points]:** Students should display formal communication skills to communicate with their teammates. This prepares them for their future workplace.
- **Presentation Skills [10 points]:** Students must show their presentation skills while working on their group projects and assignments to become more presentable.
- **Ability to ask Questions [10 points]:** Students should ask relevant questions in the classes to encourage healthy discussion on technical topics.

External Evaluation

External examiners evaluate students on the following, contributing to 70% of the total score. The total points that can be earned are 250.

- **5 Assessments [10 points per assessment]:** These assessments are done entirely based on how the student has performed in understanding the lessons and concepts taught by the instructor.
- **1 Capstone Project [200 points]:** The capstone project is conducted at the end of the certificate course to practice all the practical concepts. Students must satisfy the criteria mentioned in the project requirement document to earn full points.

Auto Evaluation

The capstone project is conducted at the end of the certificate course to practice all the practical concepts. Students must satisfy the criteria mentioned in the project requirement document to earn full points.

- **5 Quizzes [10 points per quiz]:** Quizzes in a class ensure maximum participation and ensure that the students have learned the taught concepts with attention. Students will be presented with multiple-choice questions.

Having Doubts?

Contact LSET Counsellor

We love to answer questions, empower students, and motivate professionals. Feel free to fill out the form and clear up your doubts related to our Software Automation Course

Best Career Paths

Junior Level Automation Engineer

These engineers are responsible for adding tests to the existing project and framework for automating. They might have limited coding skills and are new to automation tests. However, it is important for them to contribute to day-to-day planning, execution, and planning actions.

Mid-Level Automation Engineer

These engineers have the responsibility of executing system testing on web applications or websites using Java. Working collaboratively with the software development team and business team is necessary for executing test cases-based system requirements.

Consulting Automation Engineer

These professionals are usually hired on a contract basis for implementing a strong and reliable automation testing strategy. Typically, they can strategise for various teams and departments for the company. The expertise of such a consultant can create a global test automation strategy in an organisation.



Senior Automation Engineer

These engineers have years of expertise in coding and testing. They regularly build automation projects and execute automated tests. Understanding different test-specific design patterns and learning when to use them is their daily job. It is a senior-level position that also includes coaching.

Automation Architect

These professionals possess in-depth technical knowledge and are able to build sustainable testing projects. Over the years, the responsibilities have given them expertise in both programming and software design principles. Thus, an automation architect might be assigned to an entire department.

Automation Team Lead

An automation team lead is designated to guide an entire team of automation engineers with their skills and experience in automation testing. They often ensure that the tests are efficient by providing reliable feedback to the testing engineers and collaborating with other stakeholders.

Top Companies Hiring



AMERICAN EXPRESS



BARCLAYS



SAP



Microsoft



The Course Provides Shared Expertise by

 **LSET TRAINERS**

 **INDUSTRY EXPERTS**

 **TOP EMPLOYERS**

Skills You will Gain

- ⇒ Black-box Testing Techniques
- ⇒ White-box Testing Techniques
- ⇒ Unit Testing
- ⇒ Static Analysis
- ⇒ Testing Automation
- ⇒ Writing Test Plans
- ⇒ Writing Defect Reports
- ⇒ Understanding of Testing Theory
- ⇒ Cucumber
- ⇒ Writing Tests
- ⇒ Testing Vocabulary
- ⇒ Executing Tests
- ⇒ Software Testing
- ⇒ Selenium

Complete Learning Experience

This course provides a hands-on, guided learning experience to help you learn the fundamentals practically.

- ⇒ We constantly update the curriculum to include the latest releases and features.
- ⇒ We focus on teaching the industry's best practices and standards.
- ⇒ We let you explore the topics through guided hands-on sessions.
- ⇒ We provide industry professional mentor support to every student.
- ⇒ We give you an opportunity to work on real world examples.
- ⇒ Work with hands-on projects and assignments.
- ⇒ We help you build a technical portfolio that you can present to prospective employers.



Reasons to Choose LSET

- ⇒ Interactive live sessions by industry experts.
- ⇒ Practical classes with project-based learning with hands-on activities.
- ⇒ International learning platform to promote collaboration and teamwork.
- ⇒ Most up-to-date course curriculum based on current industry demand.
- ⇒ Gain access to various e-learning resources.
- ⇒ One-to-one attention to ensure maximum participation in the classes.
- ⇒ Lifetime career guidance to get the students employed in good companies.
- ⇒ Free lifetime membership to the LSET Alumni Club

What Will Be Your Responsibilities?

- ⇒ Work creatively in a problem-solving environment.
- ⇒ Ask questions and participate in class discussions.
- ⇒ Work on assignments and quizzes promptly.
- ⇒ Read additional resources on the course topics and ask questions in class.
- ⇒ Actively participate in team projects and presentations.
- ⇒ Work with the career development department to prepare for interviews
- ⇒ Respond promptly to the instructors, student service officers, career development officers, etc.
- ⇒ And most importantly, have fun while learning at LSET.



How Does Project-Based Learning Work?

LSET project-based learning model allows students to work on real-world applications and apply their knowledge and skills gained in the course to build high-performing industry-grade applications. As part of this course, students learn agile project management concepts, tools, and techniques to work on the assigned project collaboratively. Each student completes project work individually but is encouraged to enhance their solution by collaborating with their teammates.

Following are the steps involved in the LSET's project-based learning;

Step 1: Project Idea Discussion

In this step, students get introduced to the problem and develop a strategy to build the solution.



Step 2: Build Product Backlog

This step requires students to enhance the existing starter product backlog available in the project. This helps students to think about real-life business requirements and formulate them in good user stories.



Step 3: Design Releases and Sprints

In this step, students define software releases and plan sprints for each release. Students must go through sprint planning individually and learn about story points and velocity.



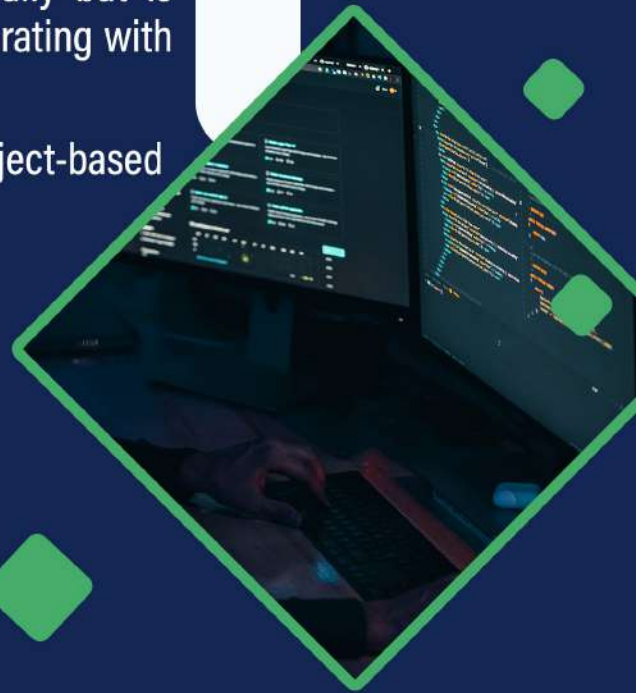
Step 5: Use CICD to Deploy

In this step, students learn to use CICD (Continuous Integration Continuous Delivery) pipeline to build their application as a docker image and deploy it to Kubernetes.



Step 4: Unit and Integration Tests

In this step, students learn to write unit tests to ensure every application part works fine.



Capstone Project

LSET gives you an opportunity to work on the real world project which will greatly help you to build your technical portfolio

Project Topic: Online Banking

London has been a leading international financial centre since the 19th century. In recent years, London has seen many FinTech start-ups and significant innovations in the banking sector. This project aims to introduce students to the financial industry and technologies used to handle billions of daily transactions. As part of this project, students will learn the current technological advances and build up their knowledge to start a simple banking application. This application uses agile project management practices to build basic functionality. Students will be presented with user stories to create the initial project backlog. Students need to enhance this backlog by adding more relevant user stories and working on them.

LSET emphasises project-based learning as it allows the students to master the course content by going through near real-world work experience. LSET projects are carefully designed to teach the industry-required skills and mindset. It motivates the students on various essential aspects like learning to work in teams, improving communication with peers, taking the initiative to look for innovative solutions, enhancing problem-solving skills, understanding the end user requirements to build user-specific products, etc.

Capstone Projects build students' confidence in handling projects and applying their newly learned skills to solve real-world problems. This allows the students to reflect upon their learning and find the opportunity to get the most out of the course.



Learning Outcome

- » Students will learn to work in an agile environment
- » Students will learn the agile project management terms used in the industry, like product backlog, user stories, story points, epics, etc.
- » Students will learn to use a Git repository and understand the concepts like commit, pull, push, branch, etc.
- » Students will learn to communicate in a team environment and effectively express their ideas.

Guidance and Help

A dedicated project coordinator who can mentor students on the process will be assigned to this project. Students can also avail of the instructor's hours as and when needed. LSET may get an industry expert with subject-specific experience to help students understand the industry and its challenges.

Execution Process

This project will be carried out in steps. Each step teaches students a specific aspect of the subject and development paradigm. Following are the steps students will follow to complete this project.

Step 1: Project Introduction Self Study [6 days]

In the first step, students will learn about the financial industry and review the project introduction documentation to build up the subject knowledge. This is a self-learning stage; however, instructor hours are available if required.

Step 2: Project Build-up and Environment Setup [2 days]

In this step, students are required to follow the project guide to set up the development environment. The project document guides students to find and connect to the LSET Git repository and install the necessary libraries or tools.



Step 3: Product Backlog and Sprint Planning [2 days]

In this step, students will use the existing product backlog and enhance it per their project scope. Students can seek help from the project coordinator and the instructor. The project coordinator will help students do sprint planning and assign story points to the stories. This process is meant to give students real-world work environment experience. Students can consider this a mock exercise on agile project management practices.

Step 4: User Stories Execution and Development [12 days]

Students will work on the user stories identified in the Step 3 process in this step. Students will write code and algorithms to complete the development objectives. The project coordinator will be available to help students to guide them on the development and answer any questions they may have. Students can also discuss this with the instructor.

Step 5: Testing, Deployment and Completion [5 days]

In this step, students will test and deploy the application to the cloud environment. Students will experience the deployment process in the cloud and learn the best practices. After the successful deployment, students will present their project to the instructor and the external project reviewer. Feedback will be given to the students. Students will have one week to work on the feedback and submit the final copy of the project, which will be sent to the external examiner for evaluation.

Project Presentation

LSET emphasises preparing students for the work environment by allowing them to learn the required soft skills. After completing the project, students must present their work to the instructor and an invited project reviewer panel. Please note that the assigned external examiner will not be part of this panel and hence will not know about the students. This ensures an unbiased assessment by the external examiner. This exercise aims to allow students to experience an environment they may face in their actual job. Also, it gives them a chance to get feedback from industry experts who can guide students on various parts of the project. This will help students to learn and fix anything they find necessary in their project. This ensures quality output and allows students to learn about industry requirements.



The instructor and the project reviewer panel will assess the students on the following;

Project Repository on GitHub [10 points]: The instructor will ensure that the students have uploaded the project repository to the LSET's GitHub account per the guidelines in the project requirement documentation. Full points will be awarded if the repository is appropriately set up per the instructions.

Presentation Skills [20 points]: Students must present their work in the given timeframe. Full points will be awarded if students cover everything needed to deliver their work in the given timeframe.

Communication Skills [20 points]: Students must present their work in a manner understandable by all the participants. More focus will be given to how students communicate, not the language. Full points will be awarded if students can share their work correctly.

Evaluation Criteria

LSET promotes a transparent and unbiased evaluation process. All the external examiners will follow a set process to grade students. No student's personal or identifying information will be shared with the external examiners, so they will not know about the person they are grading. They will only get the project files and grading guidelines to follow. This will ensure equal quality standards across the institute.

Following are some critical areas the LSET external examiners will be grading on.

Project Documentation [10 points]: Project documentation is filed correctly with the information which can be used to understand the project work. Students can use the supplied project documentation template to fill up the data. External examiner to confirm if all the information is filled up. Full points will be awarded if all the sections are covered.

Project Structure [10 points]: Students must follow the proper structure while developing their projects. This structure is being taught and covered in the project requirement documentation. External examiner to confirm if the project files are correctly structured. Full points will be awarded if the structure meets the given guideline.



Solves Basic Problem [50 points]: Students must ensure that they implement all the requirements in the project documentation. External examiner to confirm if the project solves the given problem. Full points will be awarded if the students include everything asked in the project requirement.

Innovation [20 points]: Students are encouraged to bring new ideas into their development. They can improve the design, use new design patterns, code with a better coding style, or add a feature. External examiner to confirm if the students have added more than the requirement to improve the design or solution. The new addition must include a new feature and should not be similar to the requirements given. Full points will be awarded if the external examiner finds an innovation or see students going beyond the asked requirements.

Best Practices [20 points]: Students must follow the best practices in their development. This will help them to become a quality resource for their prospective employer. External examiner to confirm if the supplied best practices are followed in the project. Full points will be awarded if the best practices are properly implemented.

Performance Consideration [20 points]: Students must consider performance while working on their projects. Performance is one of the critical industry requirements. External examiner to confirm if the student thought the performance improvements in the project. Full points will be awarded if the external examiner sees efforts taken to consider performance aspects in the development.



Security Structure [20 points]: Students need to consider the security aspect if applicable in the design and development. External examiner to confirm if the security consideration is appropriate in this project; if it is applicable, the examiner to verify if the student has considered the security elements in the project. Full points will be awarded if the external examiner sees efforts taken to assess the security aspect of the development.



Benefits of LSET Certificate

Earning the LSET Certificate means you have demonstrated hard-working capabilities and learnt the latest technologies by completing hands-on exercises and real-world projects.

Following are some of the traits employers can trust you have built up through your course;

- You know how to work in a team environment and communicate well.
- You know the tools which are necessary for your desired job.
- You know how to use the latest technologies to develop technologically advanced solutions.
- You have developed problem-solving skills to navigate complex problem scenarios and find the right solutions.
- You are now ready to take on the challenge and help your prospective employer to build the desired solutions.



What to expect after completing the course?

After earning your certificate from LSET, you can join the LSET's Alumni club. There are countless benefits associated with the Alumni Club membership. As a member of LSET Alumni, you can expect the following;

- LSET to hold your hand to find a successful career
- Advice you on choosing the right job based on your passion and goals
- Connect you with industry experts for career progression
- Provide you opportunities to participate in events to keep yourself updated
- Provide you with a chance to contribute to the game-changing open-source projects
- Provide you with a platform to shine by allowing you to speak at our events

TOOLS & TECHNOLOGIES YOU WILL LEARN FROM THIS COURSE



GIT



SELENIUM
AUTOMATION



CUCUMBER



JIRA



JUNIT



POSTMAN

REGISTER NOW!

Start Your Journey to becoming a Professional Software Automation Tester

LSET could provide the perfect headstart to start your career in Software Automation.



Admission Enquiry

☎ +44 (0) 20 3369 9909

✉ juniortech@lset.uk

✉ visa@lset.uk

Admission & Visa Office

41 Lothbury, London, EC2R 7HG

LONDON SCHOOL OF EMERGING TECHNOLOGY

 www.lset.uk