



وزارة الاتصالات
وتقنية المعلومات
MINISTRY OF COMMUNICATIONS
AND INFORMATION TECHNOLOGY



الأكاديمية السعودية الرقمية
SAUDI DIGITAL ACADEMY

معسكرات الهمم الرقمية Digital Hemam Bootcamps

شهادة إتمام تدريب Certificate of Completion

Saudi Digital Academy Wishes to Congratulate
Khaled Alblowy

On Successfully Completing Software Quality
Assurance BootCamp
In A Journey That Lasted 14 weeks

From 25 April 2021
To 19 August 2021

Issue Date:
To 19 August 2021

Wishing You A Continuous Success

تبارك الأكاديمية السعودية الرقمية —
خالد البلوي

إتمام معسكر هممة لجودة البرمجيات بنجاح
بعد رحلة استمرت لمدة 14 أسبوعاً

في الفترة من 13 رمضان 1442
11 محرم 1443

تم إصدارها بتاريخ:
11 محرم 1443

محمد السعيد
الرئيس التنفيذي
SDA CEO



مع تمنياتنا بدوام التوفيق والنجاح

رقم الشهادة: 202108031

BootCamp Plan

<p>Week 1</p> <p>Introduction to QA Testing, Focus on Manual testing</p> <p>Lectures:</p> <ul style="list-style-type: none"> Types of Testing, Manual Testing, Test plans, Test cases Software Development life cycle and how does testing figure into it <p>Assignments:</p> <ul style="list-style-type: none"> Workflows in Amazon and Google Search Test cases Agile Manual testing Test plans for wish.com Regression testing for Walmart Smoke testing for favorite website White box and black box testing for LinkedIn 	<p>Week 2</p> <p>Functional Testing Java fundamentals</p> <p>Lectures:</p> <ul style="list-style-type: none"> Introduction to Java Fundamentals <p>Assignments:</p> <ul style="list-style-type: none"> Arithmetic using input from user String magic Patterns using Loops Searching and sorting Methods Number palindrome using Java 	<p>Week 3</p> <p>Functional Testing Java fundamentals</p> <p>Lectures:</p> <ul style="list-style-type: none"> Arrays, and types of arrays. Collections in Java <p>Assignments:</p> <ul style="list-style-type: none"> Array manipulation HashMaps Sets ArrayLists Collection iteration magic Simple queue/stack using Collections 	<p>Week 4</p> <p>Database testing, Intro to JDBC, JUnits</p> <p>Lectures:</p> <ul style="list-style-type: none"> Intro to SQL, Database testing using JDBC, and JUnits <p>Assignments:</p> <ul style="list-style-type: none"> CRUD using JDBC Writing a simple JUnit for the JDBC program Different types of tags in JUnits Using Eclemma for JUnit and checking coverage Running a JUnit Suite in Eclipse Running a JUnit suite in Jenkins JUnit for an enterprise application 	<p>Week 5</p> <p>API testing, Real Time QA</p> <p>Lectures:</p> <ul style="list-style-type: none"> Restful API, Restless API, Postman, Swagger, Version one, Jira, JMeter, Test Plan, Listeners, Functions, and Regular Expressions <p>Assignments:</p> <ul style="list-style-type: none"> API testing in Postman, Swagger Logging bugs and defects in Jira Writing test cases in Jira Executing the Test Plan Setting up basic HTTP Request sampler Setting up Logic Controllers Setting up Assertions - Compare, Duration and Response Assertion Run JMeter test for 5000 users with Ramp Up period of 2s along with loop count of 4
<p>Week 6</p> <p>GUI Automation testing using Groovy</p> <p>Lectures:</p> <ul style="list-style-type: none"> Basic Syntax, Data Types, Loops, File I/O, Lists, Maps, Regular Expressions, Exception Handling, Annotations, Groovy - Unit Testing <p>Assignments:</p> <ul style="list-style-type: none"> Create a basic Groovy program to include Groovy Methods including parameters & instance methods Create a basic Groovy program to include the File Input & Output operations Create a basic Groovy program to include the basic in-built methods of Numbers, Strings, Ranges, Maps, Dates & Times Create a basic Groovy program to include Regular Expressions and Exception Handling Create a Groovy program to include Inheritance, Abstract Classes, Interfaces and annotations 	<p>Week 7</p> <p>Google Analytics</p> <p>Lectures:</p> <ul style="list-style-type: none"> Why, What and How Google Analytics. Setup and execution, Tableau Analytics. <p>Assignments:</p> <ul style="list-style-type: none"> Google Analytics Danger zone Google Analytics reporting Use the search bar Use the secondary dimension Use the segment Test plan using Google Analytics Pageviews Google Analytics Download Twitter data from web and run analytics testing using Tableau 	<p>Week 8</p> <p>UI Automation Testing using Selenium</p> <p>Lectures:</p> <ul style="list-style-type: none"> Intro To Selenium, Selenium with Java, WebDriver, WebElements <p>Assignments:</p> <ul style="list-style-type: none"> Selenium button click using Java in Chrome and an alert Navigate from website to website using Selenium Login module using Selenium. Dynamic WebElements using redefif 	<p>Week 9</p> <p>Selenium XPath</p> <p>Lectures:</p> <ul style="list-style-type: none"> XPath, Types of XPath, XPath Axes <p>Assignments:</p> <ul style="list-style-type: none"> Customize XPath. Absolute XPath. Relative XPath. XPath Axes. 	<p>Week 10</p> <p>Selenium Workflows</p> <p>Lectures:</p> <ul style="list-style-type: none"> Web elements, CSS Selector, Evoke Browsers using Selenium, Workflows, Webpages <p>Assignments:</p> <ul style="list-style-type: none"> Web Elements Send Keys() CSS Selector. Evoke browsers (IE, chrome, Firefox etc). Functional Workflows (Login page, Text field, Radio Button click, Dropdowns). Evoke Webpage (assertion - title of the page).
<p>Week 11</p> <p>TestNG framework for Selenium</p> <p>Lectures:</p> <ul style="list-style-type: none"> TestNG Framework Intro, Selenium with TestNG, Framework Events <p>Assignments:</p> <ul style="list-style-type: none"> TestNG-Test (Business logic class and a test.xml). Alert Handling (TestNG-Selenium). TestNG Annotation (examples). TestNG Executions (example). Selenium Grid (example). Event capture example (Mouse, Keyboard using a web application). 	<p>Week 12</p> <p>Mobile Testing with Appium</p> <p>Lectures:</p> <ul style="list-style-type: none"> Intro to Appium, Mobile OS, Frameworks. Why Appium <p>Assignments:</p> <ul style="list-style-type: none"> Android testing using Appium Inspector using Appium Appium Desktop Send Keys using Appium Event processing using Appium 	<p>Week 13</p> <p>Mobile Testing with Appium</p> <p>Lectures:</p> <ul style="list-style-type: none"> Appium locators, Web Elements, TestNG Framework <p>Assignments:</p> <ul style="list-style-type: none"> Appium UI Automator viewer Locators in Appium WebElements of Mobile Web Application Appium with TestNG Parallel processing of Appium with TestNG integration 	<p>Week 14</p> <p>Performance Testing (LoadRunner)</p> <p>Lectures:</p> <ul style="list-style-type: none"> Load Runner - Introduction, VUGen Scripting, Script Recording, Parameterization, Correlation, Functions, VUGen Scripting Files and Runtime Settings, Controller. <p>Assignments:</p> <ul style="list-style-type: none"> Setting up components of LoadRunner - Controller, Analysis, VUGen Recording and creating a basic VUGen script (using http protocol) on Web Tours application Implementation of various Recording options - Scripts, Protocol, Recording, Port Mapping Implement a scenario to send a random value in a request Implement a performance test with Load runner with 5000 users using VUGen scripting 	

