



SOFTWARE TESTING TRAINING

www.testcrew.com

INTRODUCTION

TestCrew courses will focus on getting the trainee ready for a career with a job title of a Software Testing Engineer, Test Automation Engineer, , Performance Test Engineer and AI Test Engineer positions. The training will be broken down into the following courses:

- Manual Testing
- Agile SDLC & Test Management
- Mobile Testing
- Webservice API Testing
- Introduction to Software Development
- Automation Testing
- Performance Testing
- AI Testing

Tracks	Certifications/Courses
Manual Tester	ISTQB Foundation Course Agile Tester Extension Certificate Agile certified practitioner Certificate ISTQB Mobile application testing Certificate
Automation Tester	ISTQB Foundation Course Agile Tester Extension Certificate (Optional) ISTQB Test Automation Engineer Certificate
Performance Tester	ISTQB Foundation Course ISTQB Agile Tester Extension Certificate (Optional) ISTQB Performance Testing Certificate
AI Tester	ISTQB Foundation Course Certified Tester AI Testing (CT-AI)

MANUAL TESTING

Course Code: (MT100)

60 HOURS

Course Title	Manual Testing	
Test Environment	Ms Office, Web Browsers, JIRA, SnagIT	
The objectived Course	Manual Testing Essentials Practices	ISTQB Foundation Course CTFL 2018 syllabi
Certificate / Project based course ?	Project Based	ISTQB Foundation Course CTFL 2018 Certificate
Mandatory / Optional	Mandatory	Mandatory
Track	-	



COURSE OUTLINE

Topic	Sub-Topic
Introduction to BootCamp	Bootcamp Overview
	Bootcamp Rules
	Bootcamp Certificate
	Mandatory & Optional Courses
	2020 Trending Technologies
	Career path after Bootcamp
Fundamentals of Software Testing	What is Testing
	Why is Testing Necessary
	Principles of a Software Testing
	Test Process Psychology of Testing
Software Development Lifecycle	SDLC Models
	Test Levels
	Test Types Maintenance Testing
Static Testing	Static Testing Basis
	Review Process
Test Techniques	Categories of Test Techniques
	Black-box Test Techniques
	White-box Test Techniques
	Experienced-based Test Techniques
Test Management	Test Organization
	Test Planning and Estimation
	Test Monitoring and Control
	Configuration Management
	Risks and Testing
	Defect Management
Test Tools	Test Tools Classification

AGILE SDLC & TEST MANAGEMENT

Course Code: (AG200)

40 HOURS

Course Title Agile Software Development Lifecycle and Test Management

Test Environment JIRA

The objectived Course Agile Tester Extension syllabi

Certificate / Project based course ? ISTQB Agile Tester Extension Certificate Or Agile certified practitioner Certificate

Mandatory / Optional Mandatory (Manual Tester)

Track Optional for the other tracks



COURSE OUTLINE

Topic	Sub-Topic
Agile Software Development	Why Agile?
	Agile Manifesto
	The mind of an Agile Tester
	Types and Aspects of Agile (Scrum, XP, Kanban)
	User Story Creation
	Test Automation
	Continuous Integration
	Release and Iteration Planning
	Pros and Cons of Agile
Agile Testing Principles, Practices, and Processes	Agile Principles
	Traditional Testing vs Agile Approach
	Status of Testing in Agile Projects
	Role of a Tester in an Agile Team
Agile Testing Methods, Techniques, and Tools	Agile Testing Methods
	Assessing Risks
	Estimating Test Effort
	Agile Project Techniques
	Tools in Agile Project - JIRA
Agile Test Certification	ISTQB Certified Tester – Agile Tester

WEBSERVICE REST API TESTING

Course Code: (RST300)

20HOURS

Course Title	Webservice REST API Testing
Test Environment	XML, JSON, SoapUI, Postman
The objectived Course	Webservice REST API Testing (all types of web services)
Certificate / Project based course ?	Project based
Mandatory / Optional	Mandatory
Track	-

COURSE OUTLINE

Topic	Sub-Topic
REST Architecture	SOA Architecture
	Components of a REST API
RESTful Testing	Introduction to XML, JSON
	Restful Test Execution Assertions & JSON Path Finder
	Creating a Testcase & TestSuite Automating a RESTful TestSuite SoapUI, Postman
	Debugging a RESTful API
Debugging a RESTful API	REST Status Codes

INTRODUCTION TO SOFTWARE DEVELOPMENT

Course Code: (DEV100)

120HOURS

Course Title Introduction to Software Development

Test Environment Notepad++, SQL, MYSQL, Mongo, MongoBooster

The objectived Course Software Development Essentials Practices

Certificate / Project based course ? -

Mandatory / Optional Mandatory

Track -

COURSE OUTLINE

Topic	Sub-Topic
Introduction to BootCamp	Bootcamp Overview Bootcamp Rules Bootcamp Certificate Mandatory & Optional Courses 2020 Trending Technologies Career path after Bootcamp
Software Development Basics	Introduction Methodologies Life Cycle and Phases
Backend JavaScript	To Be Decided
JavaScript	Functions, Event & Output Statements & Syntax Variable, Operators, Data Type JS Conditions & Loop JS Reg Expression JS Classes, Object, & Function JS Best Practices JS Debugging & REST Status Code
Python	To Be Decided
Django Framework	To Be Decided
Database	Introduction to SQL Introduction to MySQL DMBS Mongo Postgres

AUTOMATION TESTING

Course Code: (AUT400)

80 HOURS

Course Title	Automation Testing	
Test Environment	Java, JDK, Eclipse IDE, Selenium Webdriver, Maven, TestNG, GIT, SVN, Jenkins	
The objectived Course	Test Automation using Essentials Practices and tools	ISTQB Test Automation Engineer syllabi
Certificate / Project based course ?	Project based	ISTQB Test Automation Engineer Certificate
Mandatory / Optional	Optional (Track)	
Track	Automation Tester	

ISTQB

COURSE OUTLINE

Topic	Sub-Topic
Java	Java Basics
	Java Object Oriented Programming Concepts
	Java IDE, Eclipse, Intelligent J
Selenium Webdriver	Selenium Webdriver
	Locators & GUI Elements
	Webdriver Commands
	Waits & AutoIT
	Data Driven Testing using Excel
	Automation Framework – TestNG
	Page Object Model
	Screenshot Capturing
	Logging & Report
	Syntax, Text, Font
	CSS Colors
CSS User Interface & Variables	
Maven	Maven Integration with Selenium
	Installing & Configuring Maven
	Adding dependency to POM.xml
Automation Framework	Types of Framework
	Designing a Framework Implementation of a Hybrid Framework
Continuous Integration	Jenkins Set Up and Installation
	Configuring Jenkins Security
	Git & GitHub Integration
	Jenkins Git Integration
	Maven Jenkins configuration
	Build a free style project using Jenkins Build a remote project using Git and Jenkins Test Schedule on a GIT, SVN repository

PERFORMANCE TESTING

Course Code: (PRF370)

40 HOURS

Course Title JMeter, LoadRunner

Test Environment JMeter, LoadRunner

The objectived Course Performance Testing (Jemeter)
Performance Testing Syllabus

Certificate / Project based course ? Project bases
ISTQB Performance Testing Certificate

Mandatory / Optional Optional (Track)

Track Performance Tester

ISTQB

COURSE OUTLINE

Topic	Sub-Topic
Basic Concept	Principles & Types of Performance Testing
	Testing Types
	Load Generation
	Failure Modes & Causes
Performance Measurement	Typical Metrics
	Aggregating Results
	Key Sources of Performance Metrics
	Typical Results
Performance Software Lifecycle	Testing Activities
	Categories & Architecture
	Risks
Performance Testing Tasks	Introduction
	Planning
	Analysis, Design and Implementation
	Execution
	Analyzing results
Performance Testing Tools	Reporting
	Tools Support
Performance Test Certification	Tool Suitability
	ISQTB Foundation Level Specialist – Performance Testing

MOBILE TESTING

Course Code: (MT250)

40 HOURS

Course Title	Mobile Testing	
Test Environment	Google Emulator, .apk files, TestFlight, Andriod Phones, iOS Phones, Fuse,	SnagIT, JIRA Mobile App, Xamarin
The objectived Course	ISTQB Mobile application testing syllabi	
Certificate / Project based course ?	ISTQB Mobile application testing Certificate	
Mandatory / Optional	Optional (Track)	
Track	Manual Tester	

ISTQB

COURSE OUTLINE

Topic	Sub-Topic
Mobile World – Business and Technology	Introduction
	Mobile Device Types
	Types of Mobile Apps
	Mobile Apps Architecture Test
	Strategy for Mobile Apps
Mobile App Testing Types	Challenges & Risks of Mobile Apps Testing
	Device Hardware
	Device Software
	Connectivity Methods
	Common Test Types
Common Test Types	Installability Testing
	Stress Testing
	Security Testing
	Performance Testing
	Usability Testing
	Database Testing
	Globization & Localization Testing
	Accessibility Testing
	App Store and Post Release Testing
	Experience Based Testing
Mobile App Testing Tools	Development platforms for Mobile Apps
	Emulators & Simulators
	Test Lab
Mobile Test Automation	Approaches
	Methods
	Tools Evaluation
Mobile Test Certification	Automation Test Lab
	ISTQB Mobile Application Testing - Foundations Level

AI TESTING

Course Code: (AI205)

40 HOURS

Course Title	AI Testing
Test Environment	Applitools , Testim , , Mabl , Functionize , Fuse,
The objectived Course	Certified Tester AI Testing (CT-AI)
Certificate / Project based course ?	AI Testing (CT-AI)
Mandatory / Optional	Optional (Track)
Track	Manual Tester



COURSE OUTLINE

Topic	Sub-Topic
Introduction to AI	Definition of IA and AI Effect Narrow, General and Super AI AI-Based and Conventional Systems AI Technologies AI Development Frameworks Hardware for AI-Based Systems AI as a Service (AlaaS) Pre-Trained Models standards, Regulations and AI
Quality Characteristic for AI Based Systems	Flexibility and Adaptability Autonomy Evolution Bias Ethics Side Effects and Reward Hacking Transparency, Interpretability and Explainability Safety and AI
Machine Learning (ML) – Overview	Forms of ML ML Workflow Selecting a Form of ML factors Involved in ML Algorithm Selection Overfitting and Underfitting
ML Data	Data Preparation as Part of the ML Workflow Training, Validation and Test Datasets in the ML Workflow Dataset Quality Issues Data Quality and its Effect on the ML Model Data Labelling for Supervised Learning
ML Functional performance Metrics	Confution Matrix Add ML Functional performance Metrics for Classification, Regression and Clustering Limitations of ML Functional Performance Metrics Selecting ML Functional Performance Metrics Benchmark Suites for ML Performance
ML Neural Testing AI-Based Systems – Overview	Neural Networks Coverage Measures for Neural Networks specification of AI-Based Systems Test Levels of AI-Based systems Test Data for Testing AI-Based Systems Testing for Automation Bias in AI-Based Systems Documenting an AI-Based Component Testing for Concept Drift Selecting a Test Approach for an ML System
Testing AI-Specific Quality Characteristics Methods and Techniques for the Testing of AI-Based Systems	Challenges Testing Self-Learning Systems Adversarial Attacks and Data Poisoning Testing Autonomous Self-Learning Systems Testing for Algorithmic, Sample and Inappropriate Bias

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