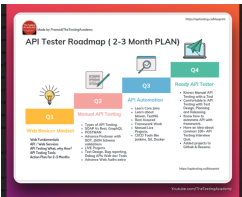# ROADMAP TO Become an Automation Tester(4-5 Month)

Task	Software Testing	Programming	API Testing	Web Automation	Mobile Testing	CI/CD Tools	Cloud Testing & Technologies	Misc / Codeless Tools	Security & Performance Tools	Interview Prep
High Level Topics & Tools	Bascis of Software Testing SDLC STLC Testing Techniques Debugging Test Management Tools Bug Tracking Tools Email Reports Communication	Java Python Javascript C#	POSTMAN SOAP UI Karate API Katalon Studio Rest Assured	Selenium Playwright Katalon Cypress	Appium Mobile Testing (Manual)	Git Github Docker Jenkins Bit Bucket	AWS Basics BrowserStack Suace Lab LambdaTest Azure / Google Cloud (GCP)	SQL CodeLess Tosca TestRigor RPA UI Path	Jmeter LoadRunner Burb Suite	• Fix your Resume • Plan to Apply • Mock Interviews • Read QnAs • Try and Fail and Try Again
Additional Knowledge	Agile Methodology Scrum Framework JIRA (knowledge)	Core Java, Collections Framework, OOPs, Threading, Design Pattern	API Testing Manually (HTTP Fundamentals, REST, SOAP, HTTP Methods)... API Automation	Maven TestNG Gradle	Debugging Knowledge Burb Suite or Proxy Test cases With Bandwitch					
Year of experience	Fresher - Yes Everyone	1. If you want to jump to directly to Automation(must have). 2. 0-2 year -> Start learning	API Testing Manually - Everyone API Automation - Direct to Automation - Yes Manual Tester - Yes	2+ Expected Direct Jump? - Should know	Optional (Depends Company to Company)			Important Concepts		
Framework and Projects	**Proper project done from Requirmenet to Email report** 1. Know How to Create Test Plan 2. How to Crate Test Scenarios, Test cases 3. Bug Reporting 4. Email reports to Stake Holders 5. RCA (Root Cause Anaysis) 6. Test Effort Estimation 1-2x Projects properly done Added to Github Hub Resume	**To Improve Coding** Hackerank Challenges Educative (https://sdet.live/educative)	At least 3-4 Projects with OAuth 2, Basic & Bearer Token Auth API Testing Manually 1-2 Custom API Automation Framework. 1 Cucumber BDD API Automation Framework	2 Projects in Web Automation in Selenium E2E. Publish Code to Github Adde to Resume	At least 1 Manual , 1 Automation Project					
Time Duration	0-2 Month - Fresher, Manual Tester	0-2 Month (Coding You have to do it regularly)	0-2 Month	0-3 Month	1-2 Month	1 Weak	1 Weak	1 Weak		15- 1 Month
Complete Roadmap Link	https://sdet.live/roadmap-manual		 Roadmap API							

Task	Software Testing	Agile, Scrum Framework	JIRA with Test Case Management	API Testing	Mobile Testing	CI/CD Tools	Cloud Testing & Technologies	Misc / Codeless Tools	Security & Performance Tools	Interview Prep
High Level Topics & Tools	**Bascis of Software Testing** SDLC STLC Testing Techniques Debugging Test Management Tools Bug Tracking Tools Email Reports **Communication**	**Agile** What is Agile, Manifesto, Principles Advantages & Disadvantages What is Scrum & Scrum Team **Scrum Terminology** User story, Epic, Stories, Task Product backlog Sprint Planning, Sprint backlog **Scrum Terms** Sprint retrospective meeting Story point, Burndown charts	**Configure** How to install and configure Jira tool, Project in Jira, Dashboard Add users/people in Jira, How to create Backlog -->Epic, Stoires, Task **Sprints in Jira** How to create stories in Jira & add story points Adding user stories to sprint Starting sprint, Adding sub-tasks to story Sprint life cycle, Creating Bug **Test Management** How to install zephyr plugin, create Test cases Import Test Cases, Creating test cycles Add test cases to cycle, Execute/Update Test cases Reports in Zephyr, Reqirment Traceability Matrix	Client-Server Architecture, Presentation, Business and Database layers HTTP Basics, HTTP Methods What is an API and API Testing? Difference between API testing and Unit testing , What is Web services? Type of Defects in API Testing Learn What is xml and JSON? , URI and URL Tools for API Testing , Introduction to REST Web services. SOAP Introduction Why learning REST is Important? Difference between SOAP and REST Web services. REST constraints Introduction to POSTMAN tool and installation. Creating requests in Postman., Creating collections in Postman. Understanding variables and environments in Postman. Authorization in POSTMAN , Assertions/Test scripts in POSTMAN. Command line intergration with Newman. Running POSTMAN Collection on Docker, Jenkins What is JSON Schema Validation? How to perform JSON Schema validation? Data Driven Testing with CSV with POSTMAN Exploring POSTMAN More features Mocking, Stabbing Testing GraphQL with POSTMAN, Websoctks with POSTMAN Writing and Running Testcases with POSTMAN Writing API Test cases & Test Plan Advance JSON Schema LIVE API Testing Example	Mobile Testing Strategy Mobile Testing Challenges Types of Mobile Applications Real Devices, Simulators and Emulators Mobile App Installation, Mobile Testing Mindset Functional Testing - Correctness & Interoperability Non-Functional Testing - Usability & Portability, Reliability & Performance	Git Github Docker Jenkins Run a Automation Job in Jenkins	AWS Basics BrowserStack Suace Lab LambdaTest Azure / Google Cloud (GCP) Bit Bucket	SQL **CodeLess** Tosca TestRigor **RPA** UI Path	Jmeter LoadRunner Burb Suite	• Fix your Resume • Plan to Apply • Mock Interviews • Read QnAs • Try and Fail and Try Again
Additional Knowledge	Agile Methodology Scrum Framework JIRA (knowledge), Certification ISTQB	Certifications PSM 1, Agile Coach	Practical , Dashboard, Reports	API Testing Manually (HTTP Fundamentals, REST, SOAP, HTTP Methods)... API Automation	Debugging Knowledge Burb Suite or Proxy Test cases With Bandwitch					
Year of experience	Fresher - Yes Everyone	1. If you want to jump to directly to Automation(must have). 2. 0-2 year -> Start learning	2+ Expected Direct Jump? - Should know	API Testing Manually - Everyone API Automation - Direct to Automation - Yes Manual Tester - Yes	Optional (Depends Company to Company)			Important Concepts		
Framework and Projects	**Proper project done from Requirmenet to Email report** 1. Know How to Create Test Plan 2. How to Crate Test Scenarios, Test cases 3. Bug Reporting 4. Email reports to Stake Holders 5. RCA (Root Cause Anaysis) 6. Test Effort Estimation 1-2x Projects properly done Added to Github Hub Resume		2 Projects in Web Manual Testing	At least 3-4 Projects with OAuth 2, Basic & Bearer Token Auth API Testing Manually 1-2 Custom API Automation Framework. 1 Cucumber BDD API Automation Framework	At least 1 Manual , 1 Automation Project					
Time Duration	0-2 Month - Fresher, Manual Tester	5 Days	2 Days	1.5 Month	10 Days	1 Week	1 Week	1 Week	15 - 1 Month	
Complete Roadmap Link	https://sdet.live/roadmap-manual 			 Roadmap API						