ROADMAPS FOR AGILE, DEVOPS, AUTOMATION

Roadmaps are based on:

https://github.com/anas-qa/Quality-Assurance-Road-Map
https://medium.com/tech-tajawal/software-testing-the-road-map-5807a5590886

FYI : I have just covered the technical part

TEST ROADMAP FOR AGILE, DEVOPS, AUTOMATION

I have just made an example of free resources that test automation learners can use to learn test automation. There is alot of free resources out there.

Subjects

- **Version control** - Git & Github (Bitbucket)
- **Programming** - Java , Javascript, Python, C# , Json , XML ,Objective-C (Swift)
- **CI/CD** - Jenkins, Teamcity
- **Database** - SQL
- Docker
- **Mobile automation** - Appium
- **Web Automation** - Cucumber, Selenium WebDriver in Java
- TestNG, Protractor**,** Cypress.IO
- **API Automation** - Postman , SoapUI, ReadyAPI, Protractor, Robot Framework
- JUnit
- Fitnesse
- Devops
- Maven
- Specflow
- Spring
- AI testing, Machine learning, Microservices (Cognitive QA)
- Splunk
- TCP/IP
- Node.js

- Azure, Bash, Linux, TDD, Google, MongoDB
- Kubernetes
- Tosca
- Eggplant, Robot Framework
- Load Testing - JMeter, HP LoadRunner, Visual Studio etc.

There is more tools to learn but what i have seen on linkedin this is the most important things to learn.

Table of Contents

1.BEGINNER JAVA & INTERMEDIATE

Course name	Length	Author
Java (Beginner) Programming Tutorials	**84 modules**	YouTube
Java Tutorials for Complete Beginners	**75 modules**	Udemy
Java Video Tutorial	**94 modules**	Udemy
Java Svenska Spellista	**118 modules**	YouTube
Java for Absolute Beginners	**60 modules**	Udemy
Java Programming	**5 hours 55 min**	TestAutomatio nU
Java Programming for Software Developers	**366 modules**	Udemy
Java (Intermediate) Tutorials Java (Intermediate) Tutorials	**N/A**	Udemy
Learn Java	**44 modules**	YouTube

Learn Java 8		YouTube
Java Fundamentals		Udacity

2.GIT COURSES - BEGINNER

Course name	Length	Author
Version Control with Git | Udacity	**4 weeks**	**Udacity**
Version Control with Git | Coursera	**12 hours**	**Udacity**
Github Guides		**Github**
Atlassian Git and Github Tutorial		**Atlassian**
Git Tutorial		**Tutorialspoint**
Git and Github Crash Course		**YouTube**
Github Basics		**YouTube**
Github Tutorial for Beginners		**YouTube**

3.SELENIUM WEBDRIVER - BEGINNER TO ADVANCED - DIFFERENT TUTORIALS

Course name	Length	Author
Selenium WebDriver with Java	**2 hours 20 min**	**Udemy**
Selenium Tutorial for Beginners	**21 modules**	**Guru99**

[Selenium Webdriver Basics](#)	33 modules	ToolsQA
[Selenium Tutorial](#)	53 modules	ArtofTesting
[Selenium Webdriver](#)	N/A	Tutorialspoint
[Selenium WebDriver - Beginner to Advanced](#)	N/A	Softwaretesting help
[Selenium WebDriver - JavaPoint](#)	N/A	Javatpoint
[Selenium WebDriver with Java](#)	18 modules	Test Automation University

4.JENKINS - ABSOLUTE BEGINNER

Course name	Length	Author
[Jenkins Beginners Tutorial](#)		Guru99
[Jenkins Tutorial](#)	26 modules	Tutorialspoint
[Jenkins - Udemy](#)	3h 24 min	Udemy
[Jenkins - Youtube](#)	19 modules	YouTube
[Jenkins - SimpliLearn](#)	1h 12 min	YouTube
[Jenkins for Beginners](#)		DevopsLearning
[Jenkins Word to Remember](#)		Codeship

5.SQL FOR BEGINNERS

Course name	Length	Author

[SQL Basics Youtube](#)	**1 hour**	YouTube
[SQL Tutorial for Beginners](#)	**3 hour 20 min**	YouTube
[SQL Tutorial - Tutorialpoint](#)		Tutorialspoint
[SQL W3schools](#)		W3schools
[Learn SQL](#)		Javatpoint
[Introduction to Databases and SQL Querying](#)		Click Linksynergy
[Oracle SQL - A Complete Introduction](#)		Click Linksynergy
[Microsoft SQL Server - An Introduction](#)		Javarevisited
[SQL Tutorial](#)		YouTube
[MySQL Crash Course](#)		YouTube
[MySQL Course](#)		YouTube
[MySQL Tutorial for Beginners](#)		YouTube
[MySQL Complete Course](#)		YouTube
[Learning MySQL](#)		YouTube
[What is Database Design?](#)		YouTube
[Oracle Tutorial](#)		OracleTutorial

6.DOCKER - BEGINNER

Course name	Length	Author
From Zero to Docker		YouTube
Docker Curriculum		Docker Curriculum
Docker Tutorial for Beginners		Guru99
Get started with Docker		Docs Docker
Getting Started with Docker		YouTube
Docker Tutorial		Tutorialspoint
Scaling Tests with Docker		TestAutomationU
Interactive Docker Tutorial		Katacoda
Full Docker Tutorial		YouTube

7.CUCUMBER - BEGINNER

Course name	Length	Author
Cucumber Testing tutorial		Guru99
Cucumber Tutorial		Tutorialspoint
Learn Cucumber		ToolsQA
Cucumber tutorial for Beginners		Artoftesting
Cucumber with Selenium		Udemy
Cucumber selenium testing tutorial		Automationtestinghub
Cucumber		Javatpoint

8.DEVOPS - QUICK GUIDE

Course name	Length	Author
Intro to DevOps	3 weeks	Udacity
Devops Tutorial		Guru99
What is Devops		YouTube
What is Devops		YouTube
What is Devops		YouTube
What is Devops		YouTube

9.JUNIT BEGINNER

Course name	Length	Author
JUnit with IntelliJ		YouTube
JUnit with Eclipse		YouTube
JUnit Tutorial with IntelliJ		YouTube
JUnit Tutorial		Tutorialspoint
JUnit Intro		ToolsQA

10.POSTMAN

Course name	Length	Author
The Basics of Using Postman		YouTube
Learn Postman		YouTube
Postman tutorial for Beginners		ToolsQA
How to Send API Requests		YouTube
Getting started with Postman		YouTube

11.JAVASCRIPT

Course name	Length	Author
Basic Javascript		Freecodecamp
Javascript		YouTube
The Modern Javascript Tutorial		Javascript.info
Javascript Tutorial		W3schools
Javascript Tutorial		Tutorialspoint
Learn Javascript Tutorial		Javatpoint
Javascript Intro		

12.TESTNG - BEGINNER

Course name	Length	Author
TestNG Tutorial		Tutorialspoint
What is TestNG		Guru99
TestNG Javapoint		JavatPoint
TestNG Tutorial with Selenium		ToolsQA
TestNG Tutorials for Beginners		Techbeamers

[TestNG Tutorial](#)		Softwaretestinghelp
[TestNG Anotations](#)		Swtestacademy
[TestNG Tutorial](#)		JournalDev

13.PROTRACTOR - BEGINNER

Course name	Length	Rating
[Protractor Testing Tool for End to End](#)		Softwaretestinghelp
[Protractor Testing tutorial](#)		Guru99
[Learn Protractor Testing](#)		Egghead.io

14.MONGODB - BEGINNER TO ADVANCED

Course name	Length	Author
[Learn MongoDB](#)		MongoDB University
[MongoDB Tutorial](#)		Tutorialspoint
[Introduction to MongoDB](#)		YouTube
[Learn MongoDB](#)		JavaTpoint
[MongoDB Tutorial](#)		QuackIT
[MongoDB Tutorial](#)		Studytonight
[MongoDB Tutorial](#)		Dataflair Training
[MongoDB Tutorial](#)		i2Tutorials

15.LINUX - BEGINNER

Course name	Length	Author
Linux Tutorial - Learn the Bash		Ryanstutorials
Linux - Unix Tutorial		Guru99
Linux Tutorial		Tutorialspoint
Learn Linux		Javatpoint
Linux Beginner Tutorials		Linux
Beginner and Advance Linux		Tecmint
Bash Guide		Machtelt Garrels
Linux Tutorials		Linuxconfig

16.JSON - BEGINNER

Course name	Length	Author
JSON Tutorial		Tutorialspoint
JSON introduction		W3schools
JSON Crash Course		Youtube
JSON Tutorial for Beginners		Youtube
Learn JSON		Javatpoint
The Complete JSON tutorial		Codewall

17.iOS - DEV - BEGINNER

Course name	Length	Author
Swift Programming Tutorial		YouTube
iOS App Development		Udemy
Swift Programming for Beginners		Udemy
Swift for Beginners		Udacity
Programming in Swift Fundamentals		RayWenderLich
Swift from Scratch		Weheartswift

18.CI/CD & Devops - WHAT IS IT? - BEGINNER

Course name	Length	Author
Continuous Integration		Thoughtworks
What is Continuous Integration		Atlassian
What is CI/CD		Nevercode
CI/CD Essentials		Codeship
What is CI/CD		Codemaze
CI/CD Explained		Amazon
Vad är Devops och CI		Rightpeoplegroup

Course name	Length	Author
CI, CD, Devops		FrontIT
CI och CD		AddQ

19.C# - BEGINNER

Course name	Length	Author
C# Full Course		YouTube
C# Beginner		Tutorialspoint
C# Tutorial		Guru99
C# Tutorial		W3Schools
Complete C# Tutorial		Csharp
C# Spellista		YouTube
C# Tutorial		ZetCode
Best C# Tutorials		Stackify
Learn C#		Hackr.io

20.XML- BEGINNER

Course name	Length	Author
XML Tutorial		W3Schools
Learn XML		Tutorialspoint
Learn XML		Webucator
XML Tutorial for Beginners		Beginnersbook
XML Tutorial		JavaTpoint
XML Tutorial		XMLMaster

21.FITNESSE - BEGINNER

Course name	Length	Author
Getting started with Fitnesse		DZone
Fitnesse for beginners		Softwaretestinghelp
Fitnesse Userguide		ButUncleBob
Automation using Fitnesse		InfoStretch
Sample project using FItnesse		AbodeQA
Using Fitnesse with .NET		RedGate

22.SPECFLOW - BEGINNER

Course name	Length	Author
Specflow+ Getting Started		Specflow
Specflow Tutorial		Softwaretestinghelp
Specflow Tutorial with Selenium and C#		ToolsQA
Specflow Beginner Tutorial		Ikeptwalking
Behavior Driven Development - Specflow		Tutorialspoint
Specflow Project Setup		Testautomationtribe

[Specflow Tutorial](#)		Softpost

23.SPRING - BEGINNER

Course name	Length	Author
[Spring Tutorial](#)		Tutorialspoint
[Learn Spring](#)		JavatPoint
[Spring Guides](#)		Spring IO
[Spring Tutorial](#)		Baeldung
[Spring Core Tutorial](#)		JournalDev
[Spring Tutorial - Getting Started](#)		Edureka
[Spring Tutorials](#)		HowtoDoinJava
[Introduction to Spring Framework](#)		Java2Blog

24.PYTHON - BEGINNER

Course name	Length	Author
Python Tutorial		W3Schools
Python Tutorial		Tutorialspoint
Python the basics		LearnPython
Python Tutorial for Beginners		YouTube
Learn Python		YouTube
Python 3 Tutorial		Programiz
Python Tutorial for Beginners		Guru99
Learn Python Tutorial		JavatPoint
Best Python Tutorials		Freecodecamp
Python Tutorial		JournalDev
Learning Python		Docs Python Guide
Python Tutorial for Beginners		Intellipat
Getting Started with Python		Data Flair Training
Python Basics		Edx

25.TDD

Course name	Length	Author
What is TDD?		Guru99
TDD		Freecodecamp

[Introduction to TDD](#)		Hackermoon
[What is TDD?](#)		Squash
[What is TDD?](#)		Techopedia
[What is TDD?](#)		YouTube
[TDD - Easy Explained](#)		YouTube
[Introduction to TDD](#)		AgileData

26.APPIUM

Course name	Length	Author
[Appium Tutorial](#)		ToolsQA
[What is Appium?](#)		Guru99
[Appium](#)		Swtestacademy
[Appium for Beginners](#)		Edureka
[Step by Step Appium](#)		Automationstesting
[Getting started Appium](#)		Appium

27.AI

Course name	Length	Author
[Introduction to AI](#)		Udemy
[How to test Software that uses AI and Machine Learning](#)		Dzone
[5 Ways AI will change Software testing](#)		Techbeacon

Course name	Length	Author
[What is AI?](#)		Guru99

28.What is an API?

Course name	Length	Author
[What is an API?](#)		YouTube
[Web Services API](#)		Udemy

29. Maven

Course name	Length	Author
[Maven Fundamentals](#)		Tutorialspoint
[Maven in 5 Minutes](#)		Maven Apache
[Apache Maven Tutorial](#)		Baeldung
[Learn Maven Tutorial](#)		Javatpoint
[Maven Tutorial](#)		Jenkov
[Maven Tutorial for Beginners](#)		Guru99
[Maven Basics for Java](#)		Devdungeon
[How to get Started with Maven](#)		Adityasrdir
[Building Java Projects with Maven](#)		Spring.io
[Beginners Guide to Creating a project with Maven](#)		Dzone

30. SoapUI

Course name	Length	Author
[What is SoapUI?](#)		Guru99

31. Splunk

Course name	Length	Author
[Splunk Tutorial](#)		Tutorialspoint
[What is Splunk?](#)		Guru99
[Splunk Tutorial](#)		Intellipaat
[What is Splunk?](#)		Geek University
[Splunk](#)		Docs splunk
[Splunk Fundamentals](#)		Splunk

32. Node.js

Course name	Length	Author
[Node.js](#)		W3Schools
[Node.js Tutorial](#)		Tutorialspoint
[Learn Node.js in 3 days](#)		Guru99
[Learn Node.js](#)		JavatPoint
[Node.js Tutorials](#)		Tutorialsteacher
[Learn Node.js](#)		YouTube
[Node.js Tutorial for Beginners](#)		YouTube

Course name		Author
Node.js Tutorial Step By Step		Airpair

33.TCP/IP

Course name	Length	Author
TCP/IP		Tutorialspoint
IPV6		Tutorialspoint
TCP/IP Basics		Xahlee.info
TCP/IP		W3schools

34. Teamcity

Course name	Length	Author
TeamCity Basic		
Creating a project in Teamcity		
Teamcity Tutorial		
Getting started with Teamcity		
TeamCity User Guide		

35.Tosca

Course name	Length	Author
Tosca Guide		Udemy
Tosca Test Automation Suite		ToolsQA
Tosca TestSuite Tutorial		AutomationTalks

Tricentis Tosca		YouTube

36.Eggplant

Course name	Length	Author
Eggplant Tutorial		YouTube
Eggplant Training and Certifications		Eggplant
Eggplant Videos		Testplant
An Overview of Eggplant		SearchSoftwareQuality

37.Kubernetes

Course name	Length	Author
Learn Kubernetes Basics		Kubernetes.io
Step By Step Kubernetes		Auth
Kubernetes Tutorial		Tutorialspoint
Kubernetes Tutorial		Guru99
70 Best Kubernets Tutorial		AquaSec
Introduction to Kubernetes		DigitalOcean
Kubernetes - Learn The Basics		Dev.to
Självstudie om Kubernetes		Microsoft

38.Robot Framework

Course name	Length	Author
[Robot Framework](#)		Tutorialspoint
[Robot Framework Tutorial](#)		Udemy
[Robot Framework Tutorial](#)		Testproject.io
[RPA](#)		Devopedia
[Robot Framework](#)		Testingbot

39. SOGETI/PLURALSIGHT

1.Test Automation A & Performance A Curriculum

Role Description
As a Test Automation Engineer you have a focus on the functional aspects of the test object, as a Performance Tester you focus on the non-functional aspects of the test object, both using latest tooling.

Expected Skills

Skill	Area	Course

Agile / Scrum	Agile	**Introduction to Agile Software Development**
	Agile Fundamentals	**Agile Fundamentals**
	Kanban Fundamentals	**Kanban Fundamentals**
	Kanban Fundamentals	**Kanban Fundamentals: Using Kanban in IT and Software Development**
	Scrum Fundamentals	**Scrum Fundamentals**
	Scrum Fundamentals	**Software Practices (SCRUM): SCRUM Roles**
Database	SQL	**Introduction to SQL**
DevOps	DevOps	**DevOps Testing and Delivery**
	DevOps	**DevOps Methodologies and Development**
Json	Json	**Java: JSON Fundamentals**
Performance monitoring and tuning	Performance monitoring and tuning	**Java performance tuning**
	Performance monitoring and tuning	**Windows Performance Monitoring Fundamentals**

	Performance monitoring and tuning	[SQL server - optimizing stored procedure performance](#)
	Performance monitoring and tuning	[Linux Performance Monitoring Fundamentals](#)
	Performance monitoring and tuning	[SQL Server: Improving Storage Subsystem Performance](#)
Performance Testing	Cluster Testing	
	Endurance Testing	
	Failover Testing	
	Load Testing	[Load Testing with Visual Studio 2013](#)
	Performance Testing	[Application performance engineering elements](#)
	Performance Testing	[Introduction to performance testing](#)
	Performance Testing	[Microsoft Azure performance testing](#)

	Performance Testing	[Introduction to Application Performance Engineering](#)
	Performance Testing	[Real world web performance](#)
	Performance Testing	[Measuing DotNet performance](#)
	Performance Testing	[Application performance engineering fundamentals](#)
	Scalability Testing	
	Stress Testing	
	Volume Testing	
Performance testing tools	HP LoadRunner	[Web training: HP LoadRunner - Working with Graphs & Reports](#)
	HP LoadRunner	[Web training: HP LoadRunner - Enhancing Vuser Scripts](#)
	HP LoadRunner	[Web training: HP LoadRunner basics and installation, working with Vugen](#)
	HP LoadRunner	[Web training: HP LoadRunner -The Controller & Executing and Analyzing Scenarios](#)
	HP LoadRunner	[Web: HP LoadRunner 12 Essentials: Working with Controller and Analysis](#)

	Jmeter	[Web training: Comprehensive JMeter Operations](#)
	Jmeter	[Web training: Jmeter Architecture and Operations](#)
	Jmeter	[Book: Pro Jmeter: Web application performance testing](#)
	JMeter	[JMeter: Getting Started](#)
	Jmeter	[Book: Jmeter: A practical beginners guide to automated testing and performance measurement for your websites](#)
	Jmeter	[Web training: Performance testing and JMeter](#)
Programming languages	Python	[Python Basics](#)
	Python	[Automation Programming With Python](#)
	Testing with Java	[Intro to Testing with Java](#)
Script	JavaScript	[HTML, CSS, and JavaScript: The Big Picture](#)
	JavaScript	[JavaScript Fundamentals](#)
	JavaScript	[JavaScript Fundamentals](#)
	JavaScript	[JavaScript: Using Variables and Working with Numbers and Strings](#)
Test automation	Test automation	[Test Automation: End to End](#)

	Test automation	[Automated Web Testing with Selenium and WebDriver Using Java](#)
	Test automation	[Test Automation Patterns](#)
	Test automation	[Getting Started with Web API Test Automation in Java](#)
	Test automation	[Test Automation: The Big Picture](#)
Test Design Techniques	Test Design Techniques	[Grundläggande testdesign](#)
	Test Design Techniques	[Tillämpad testdesign](#)
Test Management Tool incl Bug Reporting	Jira getting started	[Jira getting started](#)
	Scrum development with jira agile	[Scrum development with jira agile](#)
TMAP Suite	TMAP	[TMAP Next Test Engineer](#)
Tools	Cucumber	[Beginning Cucumber and Behavior-driven Development](#)

	Jenkins	[Working with Jenkins: Fundamentals](#)
	Selenium	[Introduction to Automated Testing with Selenium](#)
	Selenium	[Selenium and java](#)
	SoapUi	[Testautomatisering med soapui](#)
XML *	XML	[XML Fundamentals](#)

Expected Certifications

Java

[ISTQB Foundation](#)

[TMAP Next Test Engineer](#)

[ISTQB Certified Performance Tester](#)

2.Senior Test Automation Curriculum B

Role Description
You are an independent Test Automation Engineer. You are involved in the automated verification and validation of products made by engineers in a

development process. Your technical and professional knowledge of Test Automation, programming, test environments and methodologies is solid. With your knowledge and experience with one or more tools and techniques, you can independently design and execute test automation solutions. Obviously you follow the latest developments in your field and you know what is going on.

Skill	Area	Course
CI/CD	CI/CD	**Continuous Integration**
	CI/CD	**Continuous Integration and Continuous Delivery: The Big Picture**
	CI/CD (VSTS + Azure)	**Continuous Integration and Continuous Deployment**
Database	MongoDB	**Introduction to MongoDB**
	Oracle	**Oracle Database 12c Fundamentals**
DevOps	DevOps	**DevOps Methodologies and Development**
Linux	Linux	**Getting Started with the Linux Command Line**
	Linux	**Getting started with Linux**
Programming languages	Python	**Web Programming with Python and JavaScript**
Script	JavaScript	**JavaScript Objects and Prototypes**
	JavaScript	**Practical Design Patterns in JavaScript**
	JavaScript	**JavaScript Fundamentals**
Test automation	Java	**Automated Software Testing: Practical Skills for Java Developers**
	Test automation	**Creating an Automated Testing Framework With Selenium**
Tools	Docker	**Docker in Production Using Amazon Web Services**
	Docker	**Docker and Containers: The Big Picture**

Jenkins	[Working with Jenkins: Fundamentals](#)	
Jenkins	[Intermediate Jenkins Considerations](#)	
Jenkins	[Getting Started With Jenkins Continuous Integration](#)	

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3. Test Automation Specialist C

Role Description

You are a leading Test Automation Engineer who can set up a complete test automation solution at concept level. Your clear vision allows you to persuade colleagues and customers with valid arguments. As Test Automation Specialist you have in-depth knowledge of at least one expertise in the field of test automation tools and techniques. This knowledge enables you to engage in the automated verification and validation of products that engineers have developed.

Expected Skills

Skill	Area	Course
Cloud	**AWS**	[AWS Certified DevOps Engineer: Continuous Delivery and Automation](#)
	Azure	[Microsoft Azure Developer: Performing Unit Testing & Integration Testing](#)
	Azure	[Microsoft Azure Developer: Performing Data Integrity Testing](#)
	Azure	[Microsoft Azure Developer: Performing](#)

		[Automated End-to-end Testing](#)
	Google	[Google: Professional Cloud Architect](#)
Infra knowedge(container, network technologies)	**Docker**	[Managing Containers with Docker](#)
Test automation	**Development**	[Certified Scrum Developer](#)
	Development	[Certified Scrum Professional®](#)
	Java	
	TDD	[Modern TDD in .Net](#)
	TDD	[TDD – Testdriven utveckling](#)
Test Automation Tools	**Jenkins**	[Building and Administering Complex Jenkins Projects](#)

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4. Agile Test Engineer A

Role Description
As an Agile Test Engineer you have completed the basic training and you are actively furthering yourself through assignments and training in the test discipline. The development of your competences in terms of hard skills and soft skills is a priority. Gaining experience in the execution of assignments is essential in this phase of your career.

Expected Skills

Skill	Area	Course
Agile / Scrum	Agile	[Introduction to Agile Software Development](#)
	Agile	[Agile Vs. DevOps: What's the difference?](#)
	Agile Fundamentals	[Agile Fundamentals](#)
	Kanban Fundamentals	[Kanban Fundamentals: Using Kanban in IT and Software Development](#)
	Kanban Fundamentals	[Kanban Fundamentals](#)
	Scrum Fundamentals	[Software Practices (SCRUM): SCRUM Roles](#)
	Scrum Fundamentals	[Scrum Fundamentals](#)
DevOps	DevOps	[DevOps Testing and Delivery](#)
	DevOps	[DevOps Methodologies and Development](#)
Json	Json	[Getting Started with JSON in C# Using Json.NET](#)
	Json	[Java: JSON Fundamentals](#)
Programming languages	Python	[Python Automation Programming 2](#)
	Python	[Python Basics](#)

	Testing with Java	[Intro to Testing with Java](#)
Risk analysis	Risk Analysis	[Product Risk Analysis](#)
SQL	SQL	[Introduction to SQL](#)
Test Automation	Test Automation	[Test Automation: End to End](#)
	Test Automation	[Test Automation Patterns](#)
	Test Automation	[Test Automation: The Big Picture](#)
Test automation tools	Cucumber	[Beginning Cucumber and Behavior-driven Development](#)
	Selenium	[Selenium and java](#)
	Selenium	[Introduction to Automated Testing with Selenium](#)
	SoapUI	[Testautomatisering med soapui](#)
Test design techniques	Test Design	[Grundläggande testdesign](#)
	Test Design	[Tillämpad testdesign](#)
Test Management Tool incl Bug Reporting	jira	[Scrum development with jira agile](#)
	Jira	[Jira getting started](#)
TMAP Suite	TMAP	[TMAP Lifecycle](#)

	TMAP	[Essentials of TMAP](#)
	TMAP	[TMAP Next Test Engineer](#)
XML	XML	[XML Fundamentals](#)

Expected Certifications

[ISTQB Foundation Syllabus](#)

[ISTQB Agile Tester](#)

[ISTQB Agile Tester (MyLearning)](#)

[ISTQB Acceptance Testing](#)

[TMAP Next Test Engineer](#)

5.Agile Test Engineer B

Role Description
You are an experienced Agile Test Engineer who can work in various environments. You have demonstrable relevant work experience in Agile projects for clients for at least 3 years. Automation plays an important role in your test activities and you understand and use the tooling to support this.

Expected Skills

Skill	Area	Course
Agile / Scrum	Scrum	[Scrum Master Fundamentals - Foundations](#)
Coaching*	Developing Successful Coaching Relationships	[Developing Successful Coaching Relationships](#)

	Driving Change with Coaching	[Driving Change with Coaching](#)
Cognitive QA	AI	[Microsoft Azure Cognitive Services: Face API](#)
	AI	[Getting Started with Building Bots with Microsoft's Bot Framework](#)
	AI	[Microsoft Azure Cognitive Services: The Big Picture](#)
	Machine Learning	[Getting Started with Azure Machine Learning](#)
	Machine Learning	[Understanding Machine Learning with Python](#)
	Machine Learning	[Understanding Machine Learning](#)
Program Languages	Python	[Web Programming with Python and JavaScript](#)
Risk analysis	Product Risk Analysis	[Product Risk Analysis](#)
Test automation	Test automation	[Test Automation: The Big Picture](#)
	Test automation	[Test Automation: End to End](#)
	Test automation	[Test Automation Patterns](#)
Test automation tools	Cucumber	[Beginning Cucumber and Behavior-driven Development](#)

	Selenium	[Introduction to Automated Testing with Selenium](#)
	Selenium	[Selenium and java](#)
	SoapUI	[Testautomatisering med soapui](#)
Test Management	Master Test Plan	[Master Test Plan](#)
	Test Metrics	[Test Metrics](#)
	Test Planning & Management	[Test Planning & Management](#)
	Testing & Politics	[Testing & Politics](#)
	Thinking Strategically as a Manager	[Thinking Strategically as a Manager](#)
Test Management Tool incl Bug Reporting	Jira	[Scrum development with jira agile](#)
	Jira	[Jira getting started](#)
TMAP Suite	Essentials of TMAP	[Essentials of TMAP](#)
	TMAP Lifecycle	[TMAP Lifecycle](#)
	TMAP Next Test Engineer	[TMAP Next Test Engineer](#)

Expected Certifications

[Scrum master certification](#)

6.Agile Test Engineer C

Role Description

You are a very experienced Agile Test Engineer with respect and influence on customers and colleagues. You have experience with coaching, supervision of Agile Test Professionals and various test methods and test organizations.

Expected Skills

Skill	Area	Course
Agile/Scrum	**Agile**	**PMI-ACP®: Agile Development, Quality, and Testing Practices**
	Scrum	**Certified Scrum Professional®-ScrumMaster**
	Scrum	**Advanced Certified ScrumMaster**
	Scrum	**Certified Scrum Product Owner**
	Scrum	**Advanced Certified Scrum Product Owner**
	Scrum	**Certified Scrum Professional®-Product Owner**
BDD	**BDD**	**Java: BDD Fundamentals**
Continuous integration and QA	**Continuous Testing**	**Continuous Testing**
TDD	**TDD**	**Test-driven Development: The Big Picture**
	TDD	**Outside-In Test Driven Development SPA Edition**

Expected Certifications

[ISTQB Advanced Level Test Manager](#)

[Lean Six Sigma Green Belt](#)

[SAFe Overview](#)

[PMI Agile Certified Practitioner (PMI-ACP)®](#)

7.Development Test Engineer A

Function	**DevOps QA A**
Role	**Development Test Engineer**

Role Description

Your ambition goes more towards DevOps Engineer than Test Engineer. Testing is for you a focus on quality in automation, programming and deploying software. Working with the latest tooling is natural for you. You have experience in modern environments.

Expected Skills

Skill	Area	Course
Agile / DevOps	DevOps	[Implementing DevOps in the Real World](#)
	DevOps	[DevOps: The Big Picture](#)
Agile / Devops	DevOps	[Agile Vs. DevOps: What's the difference?](#)

Continuous integration technologies	AWS	[Getting Started with Amazone Web Services](#)
	Azure	[Introduction to Azure App Services](#)
	Azure	[Microsoft Azure: The Big Picture](#)
	Azure	[Azure Functions Fundamentals](#)
	GIT	[How Git Works](#)
	GIT	[Git Fundamentals](#)
	GIT	[Getting Started with Git](#)
	Google	[Introduction to Google Cloud](#)
	Google	[Google Cloud Platform Fundamentals](#)
	Google	[Google Cloud Functions: Getting Started](#)
	Maven	[Maven Fundamentals](#)
Databases	Oracle	[Oracle Database 12c Fundamentals](#)
	SQL	[Introduction to SQL](#)
Dev tools	Eclipse	[Eclipse Guided Tour for Java](#)
	Visual Studio	[Visual Studio 2019](#)
Exploratory test	Testing	[What is Exploratory Testing](#)
Infra knowedge(contai	Managing Containers	[Managing Containers with Docker](#)

ner, network technologies)	with Docker	
	TCP/IP	[TCP/IP Networking for Developers](#)
Pipelines	**CI/CD**	[**Continuous Integration**](#)
	CI/CD	[**Continuous Integration and Continuous Delivery: The Big Picture**](#)
	Microservices	[**Microservices Deployment and Continuous Integration**](#)
Programming languages	**Java**	[**Java Fundamentals: The Core Platform**](#)
	Java	[**Getting Started with Web API Test Automation in Java**](#)
	Java	[**Java Fundamentals: The Java Language**](#)
	Java	[**Java Fundamentals: Generics**](#)
	Python	[**Python: Getting Started**](#)
	Python	[**Python: Variables, Data Types, and Conditionals**](#)
	Python	[**Python: The Big Picture**](#)
	Python	[**Python Fundamentals**](#)
Test automation	**Postman**	[**Postman Fundamentals**](#)
	Selenium	[**Selenium automated web testing fundementals**](#)
	SoapUI	[**Guru99 SoapUI Intro**](#)

	Test Automation	[Automated Testing: End to End](#)
	XML	[XML Fundementals](#)
Tools	Docker	[Docker and Containers: The Big Picture](#)
	Docker	[Introduction to Docker on Windows with Visual Studio 2017](#)
	Jenkins	[Working with Jenkins: Fundamentals](#)
	Jenkins	[Getting Started With Jenkins Continuous Integration](#)
	Jenkins 2	[Getting Started with Jenkins 2](#)
	Jira	[Jira: Getting Started](#)
	Jira	[JIRA Fundamentals](#)
	Splunk	[Using your Data with Splunk](#)
	Splunk	[Analyzing Machine Data with Splunk](#)
	Splunk	[Splunk Visualizations and Dashboards](#)
	Splunk	[Splunk administration](#)
	Splunk	[Splunk Fundamentals](#)
	TeamCity	[Getting Started with TeamCity](#)
	Trello	[Trello: Sign in & Setup](#)
	Trello	[Trello: Managing Cards](#)

Trello	[Trello: Creating teams and boards](#)	
Trello	[Trello: Finding & Sharing info](#)	

Expected Certifications

[ISTQB Agile Tester Foundation](#)

[Java Foundation OCA Java SE8 Programmer 1](#)

[TMap test engineer](#)

8.Senior Development Test Engineer B

Function   **DevOps QA B**

Role   **Senior Development Test Engineer**

Role Description

Testing means for you having a focus on quality in automation, programming and deploying software. Working with the latest tooling is natural for you. You consider yourself more as a Dev Engineer than Test Engineer. You have experience in modern environments.

Expected Skills

Skill	Area	Course
Agile / DevOps	DevOps	[DevOps Skills for Developers with Visual Studio and TFS 2017](#)
	DevOps	[Implementing DevOps in the Real World](#)
	Scrum	[Scrum Master Fundamentals - Foundations](#)

CI/CD	CI/CD	[Building a Continuous Delivery Pipeline with TFS and Visual Studio 2015](#)
	CI/CD	[Building an Azure Continuous Integration Pipeline](#)
	CI/CD	[Feature Toggles, Package Management and Versioning in Microsoft TFS and VSTS 2017](#)
	CI/CD	[Continuous Delivery and DevOps with Azure DevOps: The Big Picture](#)
	CI/CD	[Source Control with Microsoft TFS/VSTS and Visual Studio 2017](#)
	CI/CD	[Continuous Delivery and DevOps with TFS and VSTS 2018, Managing Builds](#)
	CI/CD	[Continuous Integration and Continuous Delivery: The Big Picture](#)
	CI/CD	[Continuous Delivery and DevOps with TFS and VSTS 2018, Release Management](#)
	CI/CD	[Building a Deployment Pipeline for .NET Applications](#)
	DevOps	[Continuous Delivery and DevOps with TFS and VSTS 2018, Release Management](#)
	DevOps	[DevOps Skills for Developers with Visual Studio and TFS 2017](#)

	DevOps	[Securing Cloud DevOps in PaaS, IaaS, and SaaS Settings](#)
Cloud	AWS	[AWS Certified Developer - Associate](#)
	Azure	[Microsoft Azure Developer: Performing Unit Testing & Integration Testing](#)
	Azure	[Microsoft Azure for Developers: What to Use When](#)
	Google	[Google Cloud Functions Fundamentals](#)
	Google	[Deploying Containerized Workloads Using Google Cloud Kubernetes Engine](#)
	Google	[Choosing and Implementing Google Cloud Compute Engine Solutions](#)
	Google	[Using Google's Cloud For Developers - Google BigQuery](#)
Cognitive QA	AI	[Microsoft Azure Cognitive Services: The Big Picture](#)
	AI	[Microsoft Azure Cognitive Services: Face API](#)
	AI	[Getting Started with Building Bots with Microsoft's Bot Framework](#)
	Continuous testing	[Continuous Testing with Ncrunch](#)
	Machine Learning	[Understanding Machine Learning](#)

	Machine Learning	[Getting Started with Azure Machine Learning](#)
	Machine Learning	[Understanding Machine Learning with Python](#)
Dev	Microservices	[Google Cloud Functions Fundamentals](#)
Infra knowedge(container, network technologies)	Managing Containers with Docker	[Managing Containers with Docker](#)
	TCP/IP	[Docker Networking](#)
Programming languages	Node.JS	[Advanced Node.js](#)
	Python	[Web Programming with Python and JavaScript](#)
	Python	[Web Programming with Python and JavaScript](#)
SQL	SQL	[SQL Server: Understanding and Using Azure SQL Database](#)
	SQL	[Advanced SQL Queries in Oracle and SQL Server](#)
Test automation	Azure	[Microsoft Azure Developer: Performing Automated End-to-end Testing](#)
	Azure	[Microsoft Azure Developer: Performing Data Integrity Testing](#)
	DevOps	[Test-driven Development: The Big Picture](#)
	DevOps	[Testing Automation: The Big Picture](#)

	Json	[Getting Started with JSON in C# Using Json.NET](#)
	Json	[Java: JSON Fundamentals](#)
	Selenium	[Creating an Automated Testing Framework With Selenium](#)
	Selenium	[Automated Web Testing with Selenium and WebDriver Using Java](#)
	XML	[XML Fundementals](#)
Tools	Docker	[Docker in Production Using Amazon Web Services](#)
	Docker	[Continuous Delivery Using Docker And Ansible](#)
	Docker	[Docker and Containers: The Big Picture](#)
	Jenkins	[Intermediate Jenkins Considerations](#)
	JMeter	[Performance Testing and JMeter](#)
	Splunk	[Using Splunk for Data Analysis](#)

Expected Certifications

[ISTQB Agile Tester](#)

[Java Professional Certification OCA](#)

9.Development Test Expert C

Function   **DevOps QA C**

Role   **Development Test Expert**

Role Description

You are a very experienced Dev Test Engineer with respect and influence on customers and colleagues. You have experience with coaching and setting up new DevOps teams. Testing means for you a focus on quality in automation, programming and deploying software. Setting up the latest tooling is natural for you. You consider yourself more as a Dev Engineer than Test Engineer. You have several years of experience in modern environments with various clients.

Expected Skills

Skill	Area	Course
Cloud	**AWS**	**[AWS Certified DevOps Engineer: Continuous Delivery and Automation](#)**
	AWS	**[DevOps Engineering on AWS](#)**
	Google	**[Google: Professional Cloud Architect](#)**
Infra knowedge(container, network technologies)	**Docker**	**[Managing Containers with Docker](#)**

Test automation	Development	[Certified Scrum Professional®](#)
	Development	[Certified Scrum Developer](#)
	DevOps	[Orchestration and Automation: The Big Picture](#)
	DevOps	[Continuous Monitoring: The Big Picture](#)
	Testing	[DevOps Testing](#)
Tools	Jenkins	[Building and Administering Complex Jenkins Projects](#)

Expected Certifications

[Microsoft Azure DevOps Solutions](#)

[Microsoft Certified: Azure DevOps Engineer Expert](#)

[AWS Certified DevOps Engineer - Professional](#)