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**Verisk Nepal - QA Trainee Plan**

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| **Timeline** | **QA fundamentals & processes** | **UI Test Automation/Selenium Skills** | **API and Load testing** |
| **Month 1** Week 1 | 1. Software testing fundamentals. 2. QA processes overview 3. High level overview of QA roles and responsibilities 4. QA testing process overview. 5. Standards followed in Verisk   [https://www.linkedin.com/learning/software-](https://www.linkedin.com/learning/software-testing-foundations-testing-throughout-the-sdlc?trk=learning-serp_learning_search-card&upsellOrderOrigin=default_guest_learning) | OOP Basics   1. LinkedIn Learning course - Basic OOPs concepts 2. OOP class, objects, encapsulation, inheritance and page concepts 3. Functions 4. Simple tasks to complete   [https://www.linkedin.com/learning/pr](https://www.linkedin.com/learning/programming-foundations-object-oriented-design-3?u=1009514) |  |
| [testing-foundations-testing-throughout-the-](https://www.linkedin.com/learning/software-testing-foundations-testing-throughout-the-sdlc?trk=learning-serp_learning_search-card&upsellOrderOrigin=default_guest_learning) |
| [ogramming-foundations-object-](https://www.linkedin.com/learning/programming-foundations-object-oriented-design-3?u=1009514) |
| [sdlc?trk=learning-serp\_learning\_search-](https://www.linkedin.com/learning/software-testing-foundations-testing-throughout-the-sdlc?trk=learning-serp_learning_search-card&upsellOrderOrigin=default_guest_learning) |
| [oriented-design-3?u=1009514](https://www.linkedin.com/learning/programming-foundations-object-oriented-design-3?u=1009514) |
| [card&upsellOrderOrigin=default\_guest\_learning](https://www.linkedin.com/learning/software-testing-foundations-testing-throughout-the-sdlc?trk=learning-serp_learning_search-card&upsellOrderOrigin=default_guest_learning) |
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| Week 2 | Testing types and fundamentals overview   1. Functional testing 2. Regression testing 3. Production support testing 4. Non-functional testing 5. Sanity testing 6. Load Test | 1. OOP concepts Advance 2. Best code practices (naming, formatting, etc) according to programming language 3. Assignments and tasks to reflect the learnings   [https://www.linkedin.com/learning/pr](https://www.linkedin.com/learning/programming-foundations-object-oriented-design-3?u=1009514) | API fundamentals   1. API concepts and overview 2. REST API 3. HTTP requests used in APIs (GET, POST, Delete) |
| [ogramming-foundations-object-](https://www.linkedin.com/learning/programming-foundations-object-oriented-design-3?u=1009514) |
| [oriented-design-3?u=1009514](https://www.linkedin.com/learning/programming-foundations-object-oriented-design-3?u=1009514) |
| Week 3 | 1. Create Test scenarios  Application: Foodmandu, daraz and vnemployee | Python/C#/.Net /java (trainee can select as per their interest and comfort | API fundamentals  a) Soap API basics |

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|  | 2. Manually test the applications to find bugs in the applications | zone)   1. Basic to advance overview of the programing languages 2. Assignments to check the trainee's expertise on the programming languages. | b) Rest API vs SOAP API |
| Week 4 | Requirement docs preparation  Best practices to follow as a QA in agile. | Do a project demonstrating OOP concepts in any language preferred (The trainee should start working on this from week 2 onwards itself) |  |
|  | Daily 15 minutes stand up with Mentor Weekly meeting with Lead Mentor | | |
| Month 1 review with Mentors and Lead Mentor | | |
| **Month 2** Week 1 | Agile   1. Scrum 2. The Scrum Events 3. Sprint Planning/Demo 4. Sprint Grooming 5. Stand up 6. Sprint retrospective 7. Kanban | 1. Selenium Basics - (selenium framework, installations, drivers) 2. Selenium locators (CSS, Xpath etc)   [https://www.youtube.com/watch?v=X](https://www.youtube.com/watch?v=X9eLWkZBKgQ) |  |
| [9eLWkZBKgQ](https://www.youtube.com/watch?v=X9eLWkZBKgQ) |
| Week 2 |  | 1. Selenium wait (implicit and explicit methods and synchronization methods 2. Javascript executors 3. Small tasks to use javascript executor 4. Find by elements and different types of elements 5. Small automation tasks |  |

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| Week 3 | Brush up and follow up on the Agile and QA practices | 1. Selenium intermediate level functions and features. 2. Page object model basics and implementation 3. Git basics and installations 4. Git commits | 1. Manual API testing   1. API basics including security   headers   1. Postman (Intermediate) |
| Week 4 |  | 1. Database connections in selenium basics 2. Connect dbs to use test data while automatig 3. Perform POCS to automate web applications |  |
|  | Daily 15 minutes stand up with Mentor Weekly meeting with Lead Mentor | | |
| Month 2 review with Mentors and Lead Mentor | | |
| **Month 3** | JIRA | 1. Clean code principles 2. Git intermediate - study best practices 3. Selenium - moderate-advanced difficulty project 4. Refer to existing framework 5. Write method(s) to data retrieval   from html tables   1. Learn Css locators and use as   many as possible | Jmeter Basics   1. Thread group, assertions 2. Samplers 3. Controllers 4. Correlations, extractors, csv configs   [https://www.blazemeter.com/blog/gett](https://www.blazemeter.com/blog/getting-started-jmeter-basic-tutorial) |
| [ing-started-jmeter-basic-tutorial](https://www.blazemeter.com/blog/getting-started-jmeter-basic-tutorial) |
| <https://youtu.be/SoW2pBak1_Q> |
| [https://www.youtube.com/watch?v=M-](https://www.youtube.com/watch?v=M-iAXz8vs48&list=PLhW3qG5bs-L-zox1h3eIL7CZh5zJmci4c) |
| [iAXz8vs48&list=PLhW3qG5bs-L-](https://www.youtube.com/watch?v=M-iAXz8vs48&list=PLhW3qG5bs-L-zox1h3eIL7CZh5zJmci4c) |
| [zox1h3eIL7CZh5zJmci4c](https://www.youtube.com/watch?v=M-iAXz8vs48&list=PLhW3qG5bs-L-zox1h3eIL7CZh5zJmci4c) |
| Daily 15 minutes stand up with Mentor Weekly meeting with Lead Mentor | | |

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|  | Month 1 review with Mentors and Lead Mentor | | |
| **Month 4** | Database Fundamentals, Verification and Validations   1. Introduction on various databases and data tables 2. Comparison with Popular Databases – MS SQL Server, PostgreSQL 3. SQL Server fundamentals, Data Definition Language DDL, DML 4. ERD-Entity Relationship Diagrams, Data Tables and Relationships 5. Data Migration and database testing overview   [https://www.youtube.com/watch?v=HXV3zeQK](https://www.youtube.com/watch?v=HXV3zeQKqGY) | 1. Design Patterns advanced - find 4 design patterns you can leverage to enhance your automation code 2. Advanced Git - merging conflicts and branches management - two trainees work on the same branch and same files 3. Selenium - advanced Css and Xpath locators, shadowroot, read from downloads page, etc | 1. Maven build |

**This document was truncated here because it was created in the Evaluation Mode.**