**Refresher training – Java Backend**

Total duration: 10 days + capstone project (5days)

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| Course | Topics | Links | Duration |
| Core java L1 & L2 | * Language fundamentals * Operators and assignments * Flow control * OOPS in Java * Inner classes * Enum * JVM architecture, Garbage collection * Collections, concurrent collections * Generics * Concurrency, Multithreading * Serialization, Externalization * Exception handling * Design principles * Design patterns | <https://wipro.udemy.com/course/java-interview-questions-bootcamp-master-class-1000-java-questions>  or  [Core java L1](https://wilearn.sumtotal.host/rcore/c/pillarRedirect?relyingParty=LM&url=core%2factivitydetails%2fViewActivityDetails%3fActivityId%3d226381%26UserMode%3d0)  [Core Java L2](https://wilearn.sumtotal.host/Core/pillarRedirect?relyingParty=LM&url=core%2Factivitydetails%2FViewActivityDetails%3FActivityId%3D49345%26UserMode%3D0) | 3 days |
| Java 8 | * Lambdas and functional interfaces * Constructor and method references * Lambdas and local variables * Streams API-Operations, Factory methods ,Numeric streams ,Terminal operations * Streams API- Parallel processing * Optional * Default & static methods in interfaces * New Date/Time APIs | <https://wipro.udemy.com/course/modern-java-learn-java-8-features-by-coding-it>  or  <https://www.youtube.com/watch?v=grEKMHGYyns>  or  [Core java L3](https://wilearn.sumtotal.host/Core/pillarRedirect?relyingParty=LM&url=core%2Factivitydetails%2FViewActivityDetails%3FActivityId%3D43382%26UserMode%3D0) | 2 days |
| Spring boot | * HTTP methods * REST APIs * Crete Spring boot applications from scratch * Annotations * Controller, services and repositories * Application.properties and yaml * POM xml * Connecting to db * Entity classes and relationships * Hibernate and JPA configurations * configurations * Externalizing configurations * Spring profiles | <https://wipro.udemy.com/course/spring-web-services-tutorial>  Or  <https://www.youtube.com/watch?v=zvR-Oif_nxg> | 2 days |
| Microservices L1 ,L2 &L3 | * Create Microservices * Microservices architecture * Micro services configurations * Spring cloud * Micro services deployment * Micro services versioning | <https://wipro.udemy.com/course/microservices-with-spring-boot-and-spring-cloud/>  or  <https://www.youtube.com/playlist?list=PLqq-6Pq4lTTZSKAFG6aCDVDP86Qx4lNas>  <https://www.youtube.com/playlist?list=PLqq-6Pq4lTTbXZY_elyGv7IkKrfkSrX5e>  <https://www.youtube.com/playlist?list=PLqq-6Pq4lTTaoaVoQVfRJPqvNTCjcTvJB>  <https://www.youtube.com/watch?v=mPPhcU7oWDU> | 3 days |
| Hands on – Core java Coding programs | Complete 3 to 5 coding programs per day. This has to do in parallel from day 1 on bench. |  | 10 days |
| Hands on Project | Online Cinema Ticket booking system |  | 5 days |
| Assessment | MCQS from core java, java1.8, springboot, sql, microservices and 2 coding questions | https://tests.mettl.com/authenticateKey/5x4g6lhkow | 2hrs |