Training Name/Title: ASDE Training

Trainer Name: Sivakumar

Objective of the training: To make colle

Pre-Requisite for participants: To have

Sl No	Day #	Module
1	Day 1	**Maven, OOAD**
2		
3	Day 2	**Git Jenkins**
4		
5	Day3	**MongoDB**
6	Day4	**Java**
7	Day5	**RDBMS, JDBC**
8	Day6	**Java 8**
9	Day 7	**Java 11+17**
10	Day 8	**TDD, Mockito, Code Quality, NFR**
11	Day 9	**Solid Principles**
12	Day 10	**Spring**
13	Day 11	**Servlets & JSP**
14	Day 12	**Spring MVC**
15	Day 13	**Spring Boot 3**
16	Day 14	**Spring Cloud**
17	Day 15	**HTML, JS**
18	Day 16	**JavaScript**
19	Day 17	**React**
20	Day 18	**React**
21	Day 19	**React**
22	Day 20	**React Redux**
23	Day 21	**Selenium & Cucumber**

24	Day 22	**Kafka**
25	Day 23	**Docker**
26	Day 24	**Kubernetes**
27	Day 25	**AWS**
28	Day 26	
29	Day 27	
30	Day 28	
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33	Day 31	
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62	Day 60	

TOC

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good programming knowledge on Java Programming and g

Sub Module
Introduction to OOAD & UML Understanding the need of documents
Building Simple Java Project with Maven(Dependencies, Build, Plugins
Recap of Git working with BitBucket
Introduction to DevOps,Working with Jenkins - building application with pipeline with groovy scriptRecap of Git working with BitBucket, Intro to
MongoDB - NoSQL DB, CRUD, Understnaing & Creating Indexes, CA
Understnding Highly Cohesive - Loosely Coupled Systems, Collections Highly Cohesive - Loosely Coupled Systems, Collections & Generics-L
RDBMS Concepts, JDBC - CRUD Operations, with postgres DB/Mysql
Functional interfaces, lambda expression, Optional class,Stream API
Introduction to Java 11 programming features, Sealed classes, Patterr Java 17, Java NIO and NIO2
Understanding TDD approach Working with JUnit 5, Mockito, Sonarqu to understand
Design Patterns & Principles, SOLID Principles, DRY,YAGNI, Introduc
Spring IOC, Bean Life Cycle, Bean post processor,Annotation Based
Introduction Servlets, Understanding Web Servers, Working example v
Spring AOP, Aspect, Advice, Joinpoint, Spring MVC Architecture, Mod
Creating a Spring Application using Spring Boot, Performing CRUD Op
Balancer, Open Feign, Spring Cloud Circuit Breaker, Spring Cloud Cor
Introduction to HTML, CSS,Javascript, Introduction to Mediaqueries, C Javascript, Understanding DOM, Manipulating HTML with DOM. Under
Introduction to AJAX, Fetch, Functinal programming, closures, currying npm dependencies Understanding promises & callback, introduction to
Introduction to NodeJS,Installing NodeJS, NPM, Modules,Asynchronou Stateless and stateful component, nesting component
Events & methods, Lifecycle, HOC, CSS Styling, Form Validation
Forms & Inputs,JSX Introduction, Benefits of JSX, React Components, Suspense for CSR, CSR/SSR, Design patterns - atoms, molecules, org
React Redux - State management, React Routers, Testing React Appl
Need of BDD, Introduction to Cucumber, Gherkins,Understanding e2e

Introduction to Kafka, Installation, Topics, Partitions, Producer, Consur
Introduction to Docker, Installation, Containerization, Docker Image, D Docker Compose
Introduction to Kubernetes, Installation, minikube, Container Orchestra Replication and Scaling, Services, Configurations
AWS - Creating EC2 instances, Creating VPC, understanding NAT, Se
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ng mindset of product engineering		
ood to have basic understanding cloud native application		
	Theory (Concepts)/ Hands-on	**Assignment/Use Case / Project Description**
	Concepts + Practicals	Objective & Subjective
s)Overview of Gradle		
	Concepts + Practicals	
n Jenkins, Understanding plugins, creating Ansible and Terroform		
AP theorem	Concepts + Practicals	
s & Generics-List, Set, MapUnderstnding ist, Set, Map	Concepts + Practicals	
	Concepts + Practicals	
	Concepts + Practicals	Objective & Subjective
n matching, Introduction to new features of	Concepts + Practicals	
be, Introduction to NFR and the uses cases	Concepts + Practicals	
tion to logging, Lombok	Concepts + Practicals	
	Concepts + Practicals	
with JSP	Concepts + Practicals	Objective & Subjective
el	Concepts + Practicals	
perations with MongoDB	Concepts + Practicals	
nfig,	Concepts + Practicals	
bject based features, Validating with rstanding object hierarchy	Concepts + Practicals	
g, call, async, await. Introductio to ES6, o jquery	Concepts + Practicals	Objective & Subjective
us programming,Introduction to React, jsx,	Concepts + Practicals	
	Concepts + Practicals	
, Hooks, Error Boundaries, React.lazy and ganism	Concepts + Practicals	
ication	Concepts + Practicals	
Testing, working with Selenium	Concepts + Practicals	

ıner	Concepts + Practicals	
ocker Container, Docker Hub, Dockerfile,	Concepts + Practicals	Objective & Subjective
ıtion, Clulster, Control Plane, Nodes, Pods,	Concepts + Practicals	
ecurity policies	Concepts + Practicals	
		NA

Reverse KT	Hands-on
Noel (MongoDB)	
Sachin (Java - Collection)	
Vinayak (RDBMS)	
Mukul (KT - Java 8 Feature	Sathiya
Vinay (Java 11 & 17)	Rithik
Niharika (TDD, Mockito, NF	Jagadeesh
Prasanth (SOLID, Lombok)	Rohit
