

101 Foundational Training for Celloscope Software Developers

Tools

Source Control with Git

Operating System (Linux)

Linux Essentials

[LPI Linux Essentials Certification](#)

Programming Languages

Java Basic

Follow the book [Java 8 Programmer II Study Guide: Exam 1Z0-809](#)

Part One | Class Design

- Encapsulation and Immutable Classes

- Inheritance and Polymorphism

- Inner Classes

- Interfaces

- Enumerations

Part Two | Generics and Collections

- Generics

- Collections

Part Three | Lambda Expressions

- Functional Interfaces

- Lambda Expressions

- Java Built-In Lambda Interfaces 243

- Method References

Part Four | Streams and Collections

Streams
Iterating and Filtering Collections
Optional Class
Data Search
Stream Operations on Collections
Peeking, Mapping, Reducing and Collecting
Parallel Streams

Exceptions and Assertions
Exceptions
Assertions

Java Advanced

Book: [Modern Java In Action](#)

- Chapter 4
- Chapter 5
- Chapter 6
-

Video: [Java 8 Lambda Basics](#)

Java Spring Boot

[Spring Boot Tutorial – Bootstrap a Simple Application](#)

[Java Brain Video Tutorial Spring Boot Quick Start](#)

RDBMS / SQL

SQL Primer

Length : 04:14:06
URL : <https://linuxacademy.com/cp/modules/view/id/52>

Android

HTML & Javascript for Simple Front End

TO DO

Networking

Network Routing Fundamentals

Length: 02:45:24

<https://linuxacademy.com/cp/modules/view/id/326>

Git

OS

Linux essentials

Java refresher

Modern Java In Action

Chapter 4, 5, 6

Microservice architecture

Design Patterns

Servlet, JSP

Springframework

Spring Boot

SQL

Flutter

HTML, Javascript

Angular

Networking

Test

Unit Testing

API Testing

Integration Testing

End-to-end functional testing

Web resources

<https://www.logicbig.com/>

<https://www.hackerrank.com>

https://www.youtube.com/watch?v=hBh_CC5y8-s&t=3691s