

## **A Beginner's Guide to Open Source Software Development (LFD102)**

This free course introduces developers to the key concepts in developing open source software. It covers the who (successful projects and communities), what (definition), why (benefits), where (Git) and how (licensing, compliance, collaboration tips, managing diversity and continuous development & integration).

**Duration:** 2 Days

### **Prerequisites for this course**

- Lab exercises in this course are designed to work either on native hardware, or using a virtual machine (VM), under a hypervisor, such as those in the KVM, VMWare, or Virtual Box families. Detailed instructions to set up your lab environment are provided in the course.

### **Outline for this course**

Chapter 1 – Course Introduction

Chapter 2 – Open Source Software (OSS)

Chapter 3 – Why Use Open Source Software?

Chapter 4 – Examples of Successful OSS Projects

Chapter 5 – Developing an OSS Strategy

Chapter 6 – The ToDo Group

Chapter 7 – The OpenChain Project

Chapter 8 – How to Work in OSS Projects

Chapter 9 – Continuous Integration

Chapter 10 – OSS Licensing and Legal Issues

Chapter 11 – Compliance Projects: Fossology, SPDX, CHAOSS

Chapter 12 – Leadership vs Control and Why Projects Fail

Chapter 13 – Respecting and Encouraging Diversity in OSS

Chapter 14 – GitHub and Other Hosting Providers

Chapter 15 – Advanced Git Interfaces: Gerrit