COURSE TABLE OF CONTENTS

# SBOMs in Action: Security & Compliance

OEM: Linux Foundation • Code: LFWS302

## COURSE DESCRIPTION

This hands-on, 1-day instructor-led course helps professionals master software supply chain security. The program emphasizes transparency and compliance, particularly addressing requirements like the EU Cyber Resilience Act (CRA). Participants develop practical expertise in generating, validating, and integrating SBOMs throughout development pipelines.

## AUDIENCE PROFILE

- DevSecOps specialists
- Developers
- Engineers
- Compliance professionals
- Team leads

## PREREQUISITES

- Basic understanding of software development
- Familiarity with command-line interfaces (CLI)
- Basic DevOps or CI/CD knowledge
- General awareness of software security concepts

## COURSE OBJECTIVES

**By the end of this course, participants will be able to:**

- Generate and validate SBOMs using SPDX and CycloneDX formats
- Integrate SBOM generation into CI/CD pipelines
- Interpret dependencies, licenses, and vulnerabilities within an SBOM
- Communicate SBOM findings through clear, compliance-ready reports

## COURSE OUTLINE

## Module 1: Introduction

## Module 2: Foundations of SBOMs

- Lab: Interpreting a Sample SBOM

## Module 3: SBOMs Fundamentals and Lifecycle

- Lab: Analyzing and Extracting Insights from an SBOM

## Module 4: Environment-Aware SBOM Generation & Analysis

- Lab: Comparing SBOM Accuracy Across Different Build Environments

## Module 5: The SPDX Format

- Lab: Generating and Validating an SPDX SBOM

## Module 6: The CycloneDX Format

- Lab: Generating and Comparing CycloneDX SBOMs

## Module 7: Top Tools for SBOM Generation & Advanced SBOM Management

- Lab: Automating SBOM Generation and Remediation in a CI Pipeline

## Module 8: Achieving Compliance with the EU Cyber Resilience Act (CRA)

## Module 9: Communicating SBOM Insights to Management and Stakeholders

- Lab: Creating and Presenting a Simple SBOM Compliance Report