BLACKBIRD FOR TRAINING

# Essentials of Open Source Technologies for Enabling Digital Transformation

27 June – 1 July 2027
Online



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## Introduction

In an era where digital transformation strategies are accelerating across public and private sectors, open source technologies have become foundational enablers of sustainable, agile, and cost-effective innovation. These technologies are no longer optional—they are strategic tools that empower organizations to scale operations and innovate faster.

This course is designed for executives, team leaders, and aspiring professionals across various sectors in the MENA region. It meets the needs of departments such as IT, HR, marketing, project management, and beyond. Participants will gain a thorough understanding of open source technologies and learn how to apply them effectively in developing and implementing digital transformation strategies. The course also equips learners with practical tools to assess, select, and deploy the right solutions in real-world scenarios.

## Course Objectives

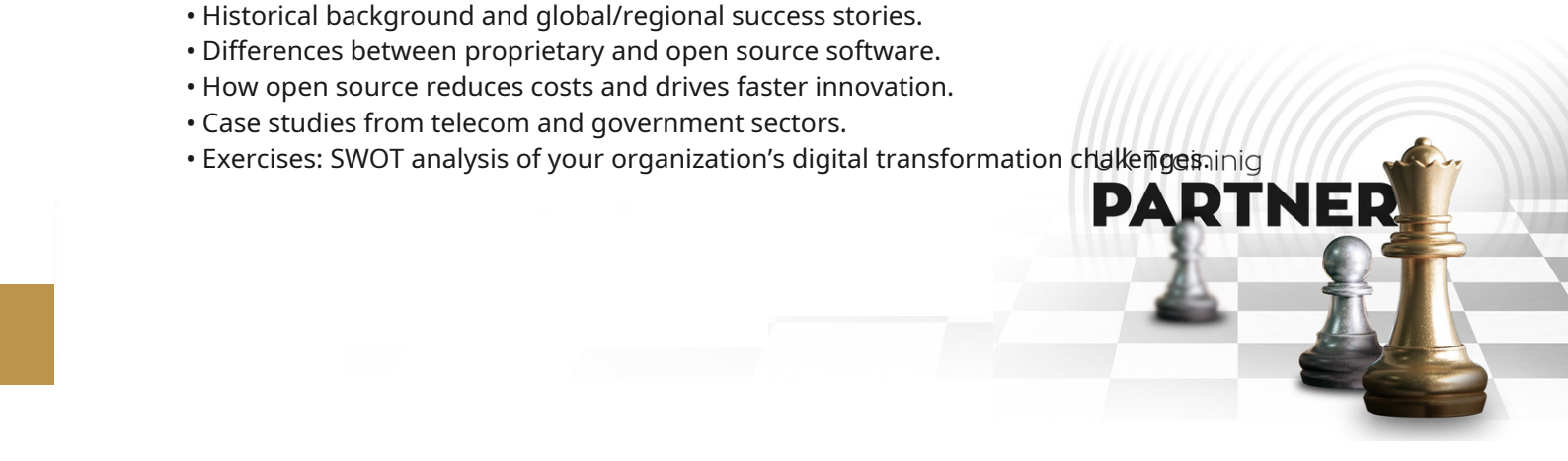
By the end of this digital transformation course, participants will be able to:

- Understand the fundamental concepts of open source technologies and their role in digital transformation.
- Analyze how open source software fuels the digital transformation process and supports digital transformation services.
- Evaluate and compare leading open source tools in the market.
- Apply open source solutions to practical digital transformation strategies.
- Learn digital transformation best practices for managing and integrating open source tools.
- Develop an initial plan to integrate open source solutions into workplace systems.
- Manage legal, security, and compliance risks associated with open source technologies.

## Course Outlines

### Day 1: Introduction to Open Source and Its Role in Digital Transformation

- Definitions and core principles of open source technologies.
- Historical background and global/regional success stories.
- Differences between proprietary and open source software.
- How open source reduces costs and drives faster innovation.
- Case studies from telecom and government sectors.
- Exercises: SWOT analysis of your organization's digital transformation challenges.



## Day 2: Core Open Source Infrastructure Tools for Enterprises

- Introduction to open source operating systems like Linux.
- Overview of open source cloud platforms such as OpenStack.
- Container management tools like Kubernetes and Docker.
- Open source databases including PostgreSQL and MySQL.
- Version control and code management with Git and GitLab.
- Comparative analysis: commercial vs. open source alternatives in digital transformation services.

## Day 3: Data Management and Analytics with Open Source Solutions

- Data analytics tools such as Apache Spark and KNIME.
- Open source business intelligence BI platforms like Metabase and Superset.
- Managing big data with Hadoop and Elasticsearch.
- Introduction to open source AI applications.
- Hands-on exercise: building a data analytics dashboard.
- Discussion: enabling digital transformation through scalable data governance.

## Day 4: Cybersecurity and Enterprise Integration in Open Source Environments

- Open source security tools such as OSSEC and Snort.
- Strategies for Identity and Access Management IAM.
- Meeting compliance standards such as ISO 27001.
- Integrating multiple tools via APIs for seamless workflows.
- Simulation: implementing security policies in an open source environment.
- Legal risk analysis and understanding licenses: GPL, MIT, and others.

## Day 5: Building a Digital Transformation Strategy Using Open Source

- Developing a comprehensive digital transformation strategy tailored to your organization.
- Setting priorities and evaluating organizational readiness.
- Reviewing effective governance models for open source adoption.
- Interactive session: preparing a practical project plan.
- Final project presentations by participants.
- Knowledge assessment and course wrap-up.



## Why Attend This Course? Wins & Losses!

- Gain a deep understanding of digital transformation meaning and the benefits of digital transformation.
- Develop practical, hands-on skills to apply open source solutions in digital transformation strategies.
- Learn how to use cost-effective and powerful tools to enhance organizational capabilities.
- Reduce reliance on expensive proprietary software and enable your organization to innovate independently.
- Understand the legal and security considerations critical to digital transformation services.
- Strengthen your leadership capacity to drive digital transformation management.
- Boost your career prospects and eligibility for professional certifications.
- Be part of a network of peers and experts across different industries.

## Conclusion

Open source technologies are no longer optional—they are the backbone of digital transformation strategies for organizations looking to achieve flexibility, minimize costs, and maintain security and performance standards. Through this course, participants will learn how to integrate these tools into their systems and design customized digital transformation strategies that unlock the full potential of these solutions.

**Whether you're a leader shaping your institution's digital future or an emerging professional looking to make your mark, this experience will provide you with the practical insights and confidence to thrive in the rapidly evolving digital economy.**

