



MindSphere Learning Journeys



Introduction

This set of Learning Journeys represents the available Learning Services offerings of Xcelerator Academy on the MindSphere portfolio of products. A Learning Journey maps out the available courses, their recommended order and lets you flexibly choose how to consume it: as Instructor-led training (ILT or V-ILT) or as On-Demand Training (ODT).

If you already have access to an On-Demand Training (ODT) membership, you can use the links presented on the following slides. If you are interested in purchasing the ODT membership, please click [here](#).

Getting Started With MindSphere for End-Users

Introduces terminologies and concepts essential for the MindSphere journey.

[Click here](#)

MindSphere App Developer

Learn how to develop, register, configure, test, run and publish your MindSphere apps.

[Click here](#)

MindSphere Professional App Developer

Learn how to develop, register, configure, test, run and publish your advanced MindSphere apps.

[Click here](#)

MindSphere Connectivity Developer

Learn how to connect devices to MindSphere.

[Click here](#)

MindSphere Professional Connectivity Developer

Get to know advanced features and best practices to connect devices to MindSphere.

[Click here](#)

MindSphere Data Analyst

Courses in this learning path empower you to explore various means of analyzing data in MindSphere.

[Click here](#)

Learning Journey: Getting Started with MindSphere for End-Users

This Learning Journey is designed to provide end-users the foundation they need to be successful using MindSphere.
Roles: End-user
Level: Beginner
Duration: 10 hours

Introducing MindSphere 5 chapters
This learning path sets the foundation to various MindSphere topics. It defines Industrial IoT, introduces PaaS and introduces the MindSphere portfolio.
[ODT](#)

Exploring Essentials of MindSphere 5 chapters
In this learning path, the technical fundamentals of MindSphere industrial IoT as a service solution are explained.
[ODT](#)

Exploring the Essentials of MindSphere 1 day
In this learning path, the technical fundamentals of MindSphere industrial IoT as a service solution are explained.
[ILT092003](#)

Overview of MindConnect Elements 5 chapters
Get to know the different MindConnect portfolio elements and understand when to use which one.
[ODT](#)

Learning Journey: MindSphere App Developer

This Learning Journey is designed to provide Developers, Architects, Engineering Managers the foundation they need to be successful developing applications for MindSphere.
Roles: Developer
Level: Beginner
Duration: minimum 2,5 days

Exploring Essentials of MindSphere 5 chapters
In this learning path, the technical fundamentals of MindSphere industrial IoT as a service solution are explained.
[ODT](#)

Exploring the Essentials of MindSphere 1 day
In this learning path, the technical fundamentals of MindSphere industrial IoT as a service solution are explained.
[ILT092003](#)

Developing MindSphere Applications 1 day
In this learning path, you will develop MindSphere applications using MindSphere APIs, discover the life-cycle of an app, access resources and security policy.
[ILT092005](#)

Inspecting MindSphere Security 5 chapters
Get to know the security concepts of MindSphere. You will learn the security concepts used in MindSphere on the connectivity, system and app development level.
[ODT](#)

MindSphere Development Associate Certification
Certification Level: Associate
Role: App Developer

Proceed with the next Learning Journey:
[MindSphere Professional App Developer](#)

Learning Journey: MindSphere Professional App Developer

This Learning Journey is designed to provide Developers, Architects, Engineering Managers for MindSphere the knowledge and skills to develop a MindSphere app in advanced level.
Roles: App Developer
Level: Intermediate
Duration: minimum 3 days

Developing MindSphere Apps with Mendix 5 chapters
Develop a MindSphere app using Mendix by deploying web components, consuming MindSphere APIs. Develop multi-tenant aware and self-hosted applications.
[ODT](#)

Developing MindSphere Apps with Mendix 2 days
Develop a MindSphere app using Mendix by deploying web components, consuming MindSphere APIs. Develop multi-tenant aware and self-hosted applications.
[ILT092006](#)

Creating Advanced MindSphere Apps 1 day
Learn to develop complex industrial IoT applications for MindSphere using the MindSphere resources, services and tools.
[ILT092010](#)

Proceed with the next Learning Journey:

- [MindSphere Connectivity Developer](#)
- [MindSphere Data Analyst](#)

Learning Journey: MindSphere Connectivity Developer (1/2)

This Learning Journey is designed to provide Developers, Architects, Engineering Managers the insights of connecting devices to MindSphere.
Roles: Developers (Connectivity Developer, engineers, architects and engineering managers)
Level: Associate
Duration: minimum 4 days

Exploring Essentials of MindSphere 5 chapters
In this learning path, the technical fundamentals of MindSphere industrial IoT as a service solution are explained.
[ODT](#)

Exploring the Essentials of MindSphere 1 day
In this learning path, the technical fundamentals of MindSphere industrial IoT as a service solution are explained.
[ILT092003](#)

Overview of MindConnect Elements 1 chapter
Get to know the different MindConnect portfolio elements and understand when to use which one.
[ODT](#)

Creating Custom Agents with MindConnect Library 7 chapters
This learning path provides detailed insights into MindConnect Library, enabling you to build your own custom agent for MindSphere using C programming language.
[ODT](#)

Creating Custom Agents with MindConnect Library 1 day
This learning path provides detailed insights into MindConnect Library, enabling you to build your own custom agent for MindSphere using C programming language.
[ILT092002](#)

Creating Custom Agents with MindConnect API 6 chapters
You will learn how to develop a custom agent and how to use MindSphere RESTful APIs to enable data exchange between your custom agent and MindSphere.
[ODT](#)

Creating Custom Agents with MindConnect API 1 day
You will learn how to develop a custom agent and how to use MindSphere RESTful APIs to enable data exchange between your custom agent and MindSphere.
[ILT092008](#)

Learning Journey: MindSphere Connectivity Developer (2/2)

This Learning Journey is designed to provide Developers, Architects, Engineering Managers the insights of connecting devices to MindSphere.

Roles: Developers (Connectivity Developer, engineers, architects and engineering managers)

Level: Associate

Duration: minimum 4 days

Inspecting MindSphere Security

Get to know the security concepts of MindSphere. You will learn the security concepts used in MindSphere on the connectivity, system and app development level.

5 chapters

[ODT](#)

MindSphere Connectivity Associate Certification

Certification Level: Associate

Role: Connectivity Developer

Proceed with the next Learning Journey:

- [MindSphere Professional Connectivity Developer](#)
- [MindSphere App Developer](#)
- [MindSphere Data Analyst](#)

Learning Journey: MindSphere Professional Connectivity Developer

This Learning Journey is designed to provide Developers, Architects, Engineering Managers the insights of connecting devices to MindSphere.
Roles: Connectivity Developer
Level: Professional
Duration: 43 hours

MindConnect IoT Extension 8 chapters
Learn how to connect devices to MindSphere with MindConnect IoT Extension.
[ODT](#)

MindConnect IoT Extension 1 day
Learn how to connect devices to MindSphere with MindConnect IoT Extension.
[ILTMS32VMCEXT](#)

Exploring MindConnect Integration 6 chapters
Learn about MindConnect Integration, how to develop and configure cloud-to-cloud integration and learn more about connecting cloud-based SaaS applications.
[ODT](#)

Exploring MindConnect Integration 1 day
Learn about MindConnect Integration, how to develop and configure cloud-to-cloud integration and learn more about connecting cloud-based SaaS applications.
[ILT092001](#)

Extending MindConnect Library Custom Agents 4 chapters
This learning path provides detailed insights into MindConnect Library, enabling you to build your own custom agent for MindSphere using C programming language.
[ODT](#)

Learning Journey: MindSphere Data Analyst

This Learning Journey is designed to provide Developers, Architects, Engineering Managers an insights of data in MindSphere.
Roles: Data Analyst, Developer
Level: Beginner
Duration: minimum 3 days

Exploring Essentials of MindSphere 5 chapters
In this learning path, the technical fundamentals of MindSphere industrial IoT as a service solution are explained.
[ODT](#)

Exploring the Essentials of MindSphere 1 day
In this learning path, the technical fundamentals of MindSphere industrial IoT as a service solution are explained.
[ILT092003](#)

Creating Dashboards with Visual Flow Creator 6 chapters
This learning path empowers you to use Visual Flow Creator application confidently for various use cases.
[ODT](#)

Creating Dashboards with Visual Flow Creator 1 day
This learning path empowers you to use Visual Flow Creator application confidently for various use cases.
[ILT092004](#)

Configuring MindConnect Edge Analytics 1 day
Acquire knowledge about MindConnect Edge Analytics. You will be able to configure the MindConnect Edge Analytics Engine. With this knowledge, you will be able to combine edge computing functionality with the powerful ecosystem of MindSphere. You will configure data sources, simplify algorithms and configure the archiving of data in MindSphere.
[ILT092007](#)

Proceed with the next Learning Journey:

- [MindSphere App Developer](#)
- [MindSphere Connectivity Developer](#)