

intent driven autonomous networks (IDAN) fundamentals

(Course code - ODF-2502)

Expand your AI foundation: Learn a common, business-led approach to introducing autonomous networks, required to manage the surge in data usages and the introduction of 5G services.

Autonomous Networks (AN) are network and software platforms that can adapt their behavior based on their environment with minimal human input. However, achieving this autonomous state is challenging due to complexity and integration requirements, especially when dealing with legacy network and software platforms used by communication service providers (CSPs).

This course provides a foundational understanding of implementing autonomous networks. You will learn a standardized approach to intent-based network

operations, enabling you to express desired outcomes in a machine-interpretable language. This approach is supported by new Open APIs.

The course initially covers the industry standards, vendor agnostic reference architectures and technical architectures. This knowledge helps all stakeholders understand the relationship within the autonomous domains. You will also explore the impacts and implications of deploying an autonomous network.

Format: On-site | online | virtual

Level: Foundation

Duration: 1 day

Prerequisites:

There are no immediate pre-requisites for this course, however it's highly recommended that the following is considered due to the wider references of managing AI in telecom networks and topics made throughout the course.

- AI and automation - Deploying in ODA Overview (ODF-1501)

who should attend?

This course is suitable for:

- Professionals responsible for ensuring autonomous networks deliver value to the business.
- Technicians and engineers seeking a foundation course in designing and developing autonomous networks.
- Data scientists and systems analysts working for enterprise application providers or integrators.
- Professionals involved in practical data research and analytics and its impacts on 5G rollouts.
- Developers and architects managing large volumes of data in new networks.
- Individuals interested in exploring the challenges and practicalities in AI rollout.

course certification:

A course attendance certificate is issued on satisfactory completion of the course. There is a knowledge certification exam also associated with the course material. Passing this exam counts toward Skill certification with TM Forum.

Find out more about certification tracks [here](#).

what will you learn?

- Understand the importance of AN architectures and standards in adopting and rolling out 5G.
- Gain insights into the business and management challenges associated with developing autonomous networks.
- A solid foundation for scoping autonomous networks projects, planning and assessing the impact of change.
- The criteria and steps involved in becoming a fully AN-driven CSP.
- Requirements of an autonomous network and the significance of concepts such as closed loops, autonomous domains, intent driven interaction.

suggested courses to take next?

- AI Operations (AIOps) Fundamentals ODF-2504
- AI Closed-Loop Management Architecture Fundamentals ODF-2505

course syllabus

MODULE 1

**Intent Driven Autonomous Networks -
Introduction & drivers**

MODULE 2

**Principles, AN Reference Architecture
& maturity levels**

MODULE 3

Intent modelling & life cycle management

MODULE 4

Capability management & control loops

MODULE 5

Case studies of IDAN

MODULE 6

**Challenges of IDAN Implementation
& next steps**