

Edge Xpert Online Training



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Course 1: Edge Xpert Introduction

Join Jim White, founder of the EdgeX Foundry and now IOtech Systems CTO, for a solid grounding and hands-on introduction to using Edge Xpert - IOtech's commercial implementation of EdgeX.

Training material consists of **bitesize videos, instructions, training labs** and **short tests** that aim to get developers up and running with Edge Xpert as quickly as possible. Upon completing the course, developers will have a clear understanding of the benefits of using Edge Xpert and its architecture. They will also have installed, run and used some of the Edge Xpert microservices and associated tooling. All material can be worked through at the developer's own pace.

The Edge Xpert Introduction online training, will take most developers **approximately 3 hours** to complete. See the module overview below:

1. EdgeX Foundry Introduction

An introduction to the background, goals and objectives of EdgeX Foundry and orientation to the open source community. The module includes:

- The history and goals of the EdgeX Foundry project
- Use cases and deployments of EdgeX
- The EdgeX open source project and community
- The EdgeX release cycle and roadmap

2. Edge Xpert Architecture

A view into the microservice architecture behind EdgeX and Edge Xpert and understanding the roles of the main microservices. The module includes:

- EdgeX and Edge Xpert architectural tenets
- Microservice architectures – what, why, how
- How data and commands flows through the platform
- The role of each microservice and the distributed nature of the platform

3. Prerequisites and Tooling

Ensure that your development environment is correctly setup to run an Edge Xpert based system. The module includes:

- Hardware and software requirements for EdgeX and Edge Xpert
- Installing Ubuntu Desktop as a Virtual Machine
- Installing Docker and Docker Compose
- Installing other useful development tools (Postman, Go, Redis)

4. Getting Started with Edge Xpert

Learn how to run and configure Edge Xpert. Explore its operational status, invoke APIs and use the Edge Xpert Manager UI. The module includes:

- Installing and running Edge Xpert
- Determining service health and invoking the Edge Xpert APIs
- Using the Edge Xpert Manager UI and other provided tools
- Gaining experience in Edge Xpert configuration