Fundamentals of Quantum Computing (LFQ101)

The course discusses the fundamentals of quantum computing, highlighting potential technological disruptions it brings. It discusses the current capabilities of quantum computing, current use cases, as well as prospective future applications, while emphasizing security advantages and dangers, especially around secure communication and encryption.

Duration: 4 Hours

Prerequisites for this course

In order to complete this course, learners should be able to:

- Learners should be generally familiar with how computers function and the current use of on-premise and cloud computing usage.

Outline for this course

Chapter 1 – Course Introduction

Chapter 2 – Understanding Quantum Computing

Chapter 3 – Quantum Use Cases

Chapter 4 – Security Considerations