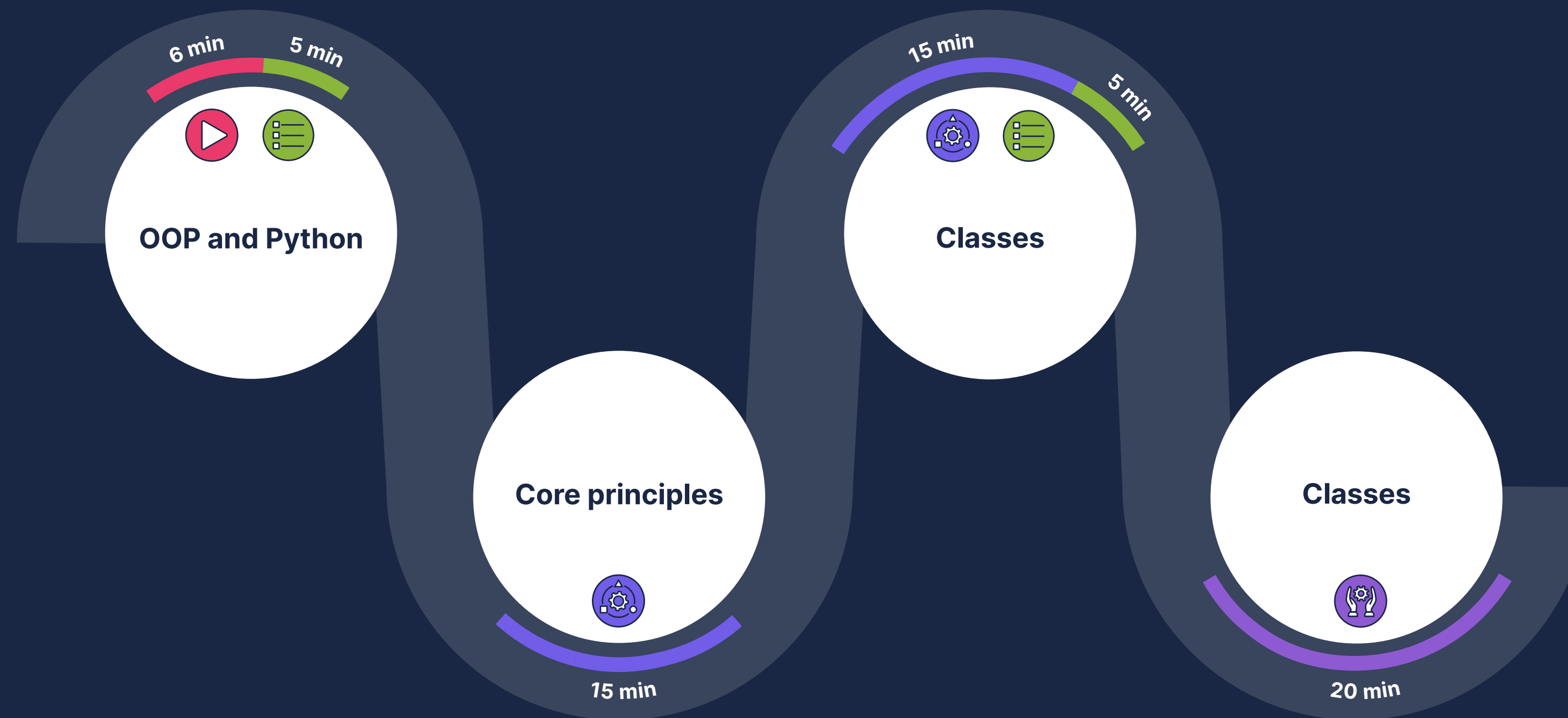


Classes, objects, and methods – Lesson overview

Encapsulating data and functionalities within classes can create a **structured and efficient approach to coding**. As a data analyst, it is fundamental to learn how to **define classes**, **instantiate** them, and **use their methods** to perform data analyses and other data manipulations which would result in **reusability** and **abstraction** in programming.

In this lesson, we delve into the **fundamentals of object-oriented programming** (OOP) by exploring Python classes.

 Video	 Knowledge questions
 Examples	 Exercise



Learning objectives

- Define and instantiate classes in Python to model real-world entities.
- Understand and apply the core concepts of object-oriented programming (OOP) in class design.
- Utilise class methods to manipulate and access the data encapsulated within objects.
- Recognise the benefits of reusability and abstraction provided by classes in programming.

