



✓ 1100 XP

The Principles of Sustainable Software Engineering

25 min • Module 10 Units

Beginner

Developer

Administrator

Solution Architect

Student

DevOps Engineer

Data Scientist

Data Engineer

Database Administrator

AI Edge Engineer

AI Engineer

Technology Manager

Azure

.NET

Microsoft Power Platform

Sustainable Software Engineering is an emerging discipline at the intersection of climate science, software, hardware, electricity markets, and data center design. The Principles of Sustainable Software Engineering are a core set of competencies needed to define, build, and run sustainable software applications.

Learning objectives

In this module, you'll:

- Identify the six principles of Sustainable Software Engineering.
- Understand the two philosophies of Sustainable Software Engineering.

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Prerequisites

- Familiarity with general computing concepts

Introduction

1 min



Overview of Sustainable Software Engineering

3 min



Principle: Carbon efficiency

2 min



Principle: Energy efficiency

2 min

**Principle: Carbon awareness**

3 min

**Principle: Hardware efficiency**

3 min

**Principle: Measurement**

3 min

**Principle: Climate commitments**

3 min

**Knowledge check**

3 min

**Summary**

2 min

