

# **Professional Data Engineer (PDE)**

## **Online Course**

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## Course Modules

### 1. Designing data processing systems

- Designing for security and compliance
- Designing for reliability and fidelity
- Designing for flexibility and portability
- Designing data migrations

### 2. Ingesting and processing the data

- Planning the data pipelines
- Building the pipelines
- Deploying and operationalizing the pipelines

### 3. Storing the data

- Selecting storage systems
- Planning for using a data warehouse
- Using a data lake
- Designing for a data mesh

### 4. Preparing and using data for analysis

- Preparing data for visualization
- Sharing data
- Exploring and analyzing data

# Google Professional Data Engineer

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## 5. Maintaining and automating data workloads

- Optimizing resources
- Designing automation and repeatability
- Organizing workloads based on business requirements
- Monitoring and troubleshooting processes
- Maintaining awareness of failures and mitigating impact

The logo for Zetlan Technologies features a large, stylized, light gray letter 'Z' in the background. To the left of the 'Z', there are three light gray circles of varying sizes. Below the 'Z', the company name 'Zetlan Technologies' is written in a light gray, sans-serif font.

Zetlan Technologies

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in terms of time management,  
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