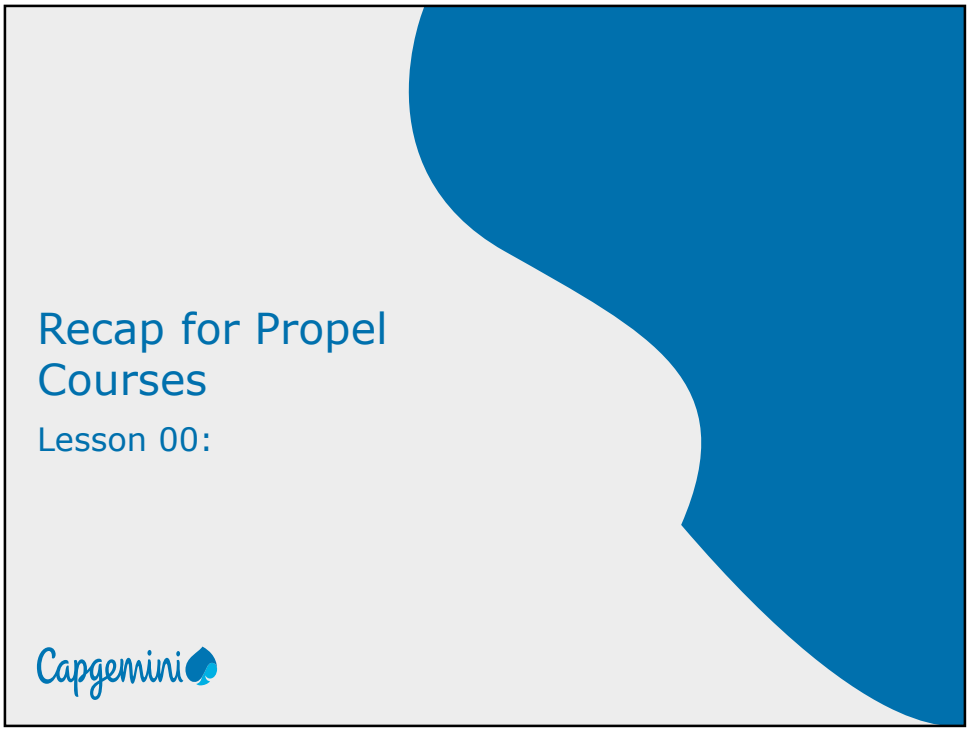
Instructor Notes:



Instructor Notes:

Course Goals and Non Goals

- Course Goals
  - Recap session for below courses:
    - Programming foundation
    - HTML, JavaScript, CSS and XML
    - SQL
    - OOP-UML
    - Software Engineering

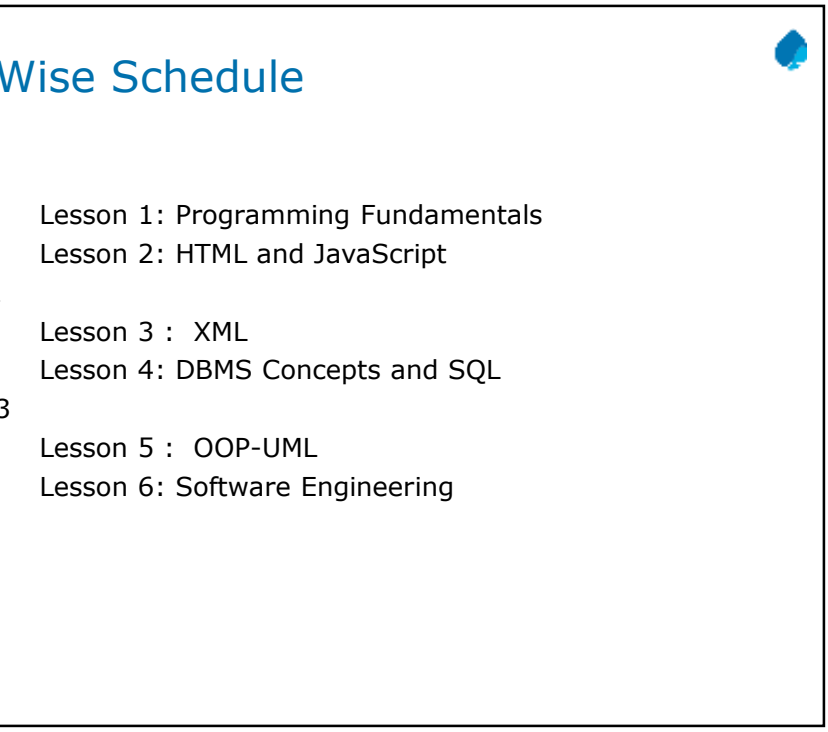
- Course Non Goals
  - No complete training session will be conducted for these courses.

Instructor Notes:

Intended Audience

- Novice Developers

Instructor Notes:



Instructor Notes:

Table of Contents

- Batch Orientation – Day 1 - 1 Hrs.

- Lesson 1: Programming Fundamentals– Day 1 - 3 Hrs.

  1.1 Good programming practices.

  Readable(Naming Conventions , Comments, Guidelines for writing good code)

  Maintainable (Remove Hardcoded constants)

  Modular

  Coupling and Cohesion

  Composite Datatype

  Robust program

  Pseudocode review checklist

  1.2 Demo

  1.3 Case Study

- Lesson 2: HTML and JavaScript – 4 Hrs.

  2.1 HTML form element

  2.2 HTML 5 new form elements (Number, Date and Email)

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2.3 HTML 5 validations

2.2 DOM objects (Document and Form)

2.3 Event handling in JavaScript

2.4 Demo

2.5 Case Study

Instructor Notes:

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    - Modular
    - Coupling and Cohesion
    - Composite Datatype
    - Robust program
    - Pseudocode review checklist
  - 1.2 Demo
  - 1.3 Case Study

- Lesson 2: HTML and JavaScript – 4 Hrs.
  - 2.1 HTML form element
  - 2.2 HTML 5 new form elements (Number, Date and Email)

Instructo

2.3 HTML 5 validations

2.2 DOM objects (Document and Form)

2.3 Event handling in JavaScript

2.4 Demo

2.5 Case Study

Instructor Notes:

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- **Lesson 5: XML Day 2 – 1.5 Hrs.**

  5.1 Validating xml against xsd

  5.2 Simple Type restriction

  5.3 Demo

  5.4 Case Study

- **Lesson 4: DBMS Concepts and SQL – 6.5 Hrs.**

  4.1 DDL commands (CREATE, ALTER and DROP)

  4.2 Constraints

  4.3 Sequence

  4.4 DML command (Insert, Update, Delete)

  4.5 Select Query, Joins and subquery

  4.6 Demos

Instructor Notes:

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- **Lesson 5: OOP-UML – 2 Hrs.**
  - 5.1 Principles in Object-Oriented technology
  - 5.2 UML diagram
    - Use Case Diagram
    - Class Diagram
    - Sequence Diagram
  - 5.3 Demo
  - 5.4 Case study

- **Lesson 6: Software Engineering – 1 Hrs.**
  - 6.1 Different Phases in Software Engineering
    - Requirements Phase, Design Phase, Construction Phase, Testing and acceptance Phase
  - 6.2 Review and Configuration Management Process
  - 6.3 Case Study