

## **Course Design Document – OOPS**

### **1. About the Document:**

This design document specifies all the decisions made about the course up to this time, including:

- Purpose of the course
- Intended outcome of the course
- Audience description
- Delivery method(s)
- What to train
  - High-level outline
  - Detailed lesson outlines
- Objectives of each lesson
- Assessments/exercises for each task

### **2. Purpose of the Design Document:**

The purpose of the design document is to obtain agreement with all stakeholders about the vision and plan for the course. These parties include:

- Internal clients (BU SMEs) and reviewers
- Team members (iLD) working on the course
- External clients, if any

### **3. Sign-off:**

At this point, obtaining a sign-off on the design document is important in ensuring agreement on the plan. Once an agreement is secured from key stakeholders work on developing the course materials can begin.

An approved course design document is required to release a course as an official curriculum

#### **Key stakeholders for Design sign-off**

- Designated Leader from BU (for BU-developed courses)
- Head of iLD

## **Contents of a Design Document**

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**Purpose of the Course:**

This course introduces the associates to the concept of Object Oriented Programming. By the end of this course, associates will be able to understand the difference between a class, and an object. They'll know how objects are constructed and what exactly happens when the program is run. They'll also go over important OOP techniques such as encapsulation, inheritance, polymorphism and abstraction etc.

### **Audience Description:**

The course is set for all entry-level associates at Intellect. The course is appropriate for associates who begin their career here at Intellect. This is a course that is significant to understand the concept of Object Oriented Programming technology.

### **Course Objectives:**

During this course, the learner will:

- Understand the difference between a class, and an object
- Know how objects are constructed
- Understand what exactly happens when the program is run

### **Learning Assessment:**

There are assessments included as part of the final assessment after the training completion

### **Instructional Strategies:**

This is an instructor-led in-person/virtual course with multiple illustrations. The following methods will be employed at various places in the course:

- Cases are taken as illustrations
- Facilitator-led discussion
- Common illustration discussions

### **Media:**

The course will utilize the following media

- Slide Presentation/Images/platform based training

### **Duration:**

This course is divided into 12 blocks, taking approximately 12 hours in total.

- Pre-Training Activity: There is no pre-training activity
- Post-Training Activity: There is no pre-training activity

### **Course Scope:**

The course contains 12 lessons. The lesson brief is given below:

Lesson	Topic List	Delivery Method	Duration	Practice check Method	Annexure
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1	What is OOPS concept?	Trainer-led session	60 minutes	NA	NA
2	Advantages of OOPS	Trainer-led session	60 minutes	NA	NA
3	Class and Object	Trainer-led session	60 minutes	NA	NA
4	Encapsulation	Trainer-led session	60 minutes	NA	NA
5	Inheritance	Trainer-led session	60 minutes	NA	NA
6	Polymorphism	Trainer-led session	60 minutes	NA	NA
7	Abstraction	Trainer-led session	60 minutes	NA	NA
8	Coupling	Trainer-led session	60 minutes	NA	NA
9	Cohesion	Trainer-led session	60 minutes	NA	NA
10	Association	Trainer-led session	60 minutes	NA	NA
11	Aggregation	Trainer-led session	60 minutes	NA	NA
12	Composition	Trainer-led session	60 minutes	NA	NA

### **Activities Conducted:**

Activity #	Activity	Objective	Duration	Annexure
NA	NA	NA	NA	NA

### **Development Tools**

The course was prepared in PPT and edited with video editing tools.

### **Ownership**

The design and development of the course is by iLD Team - Intellect

Course approved by Dr. Vinay Menon – SVP iLD

Course revision from time to time by Ashok T - VP iLD

Approved facilitator:

**Development Time**

30 man-days (for course creation and editing as per guidelines)

**Support Requirements**

The course was developed completely by iLD Team - Intellect

**Course Sign-off**

Approved by:

Date:

Place:

**Annexure**

**Not applicable**