

# CIW Enterprise Specialist Series – Course 1: Distributed Object Computing Using Java and CORBA (June 2002)

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*Distributed Object Computing Using Java and CORBA* is a 12-hour course that introduces students to the fundamentals of distributed object computing using CORBA. Students learn how to choose and install an ORB as well as the fundamentals of the Interface Definition Language (IDL), including how IDL maps to Java. Students also get hands-on experience building client and server applications that use static invocation and the Dynamic Invocation Interface.

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## Topics

### Introduction to CORBA

CORBA Overview  
The Object Management Group  
CORBA Architecture

### Interface Definition Language

Introduction to IDL  
Basics of IDL  
Inheritance and IDL  
Nonclass Data Types  
Parameter Passing Modes  
Exceptions

### Building CORBA Clients

Client IDL Stubs  
Initializing the ORB  
Using the Naming Service  
Invoking Remote Methods  
Using Out and Inout Parameters

### Building CORBA Servers

Server IDL Skeletons  
Implementing CORBA Objects  
CORBA Objects and the Naming Service  
Waiting for Invocation  
Using Out and Inout Parameters

### Factory and Callback Objects

Factory Objects  
Callback Objects

### CORBA Exceptions

Introduction to CORBA Exceptions

### Dynamic Invocation Interface

Introduction to DII  
Constructing an Argument List  
Preparing for the Return Value  
Invoking the Request  
Extracting Return Values

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## Target Audience

Database developers and administrators, Internet application developers, middleware programmers, Java developers, and client/server developers.

## Job Responsibilities

Develop n-tier database and legacy connectivity solutions for Web applications using Java, Java APIs, Java Database Connectivity solutions, middleware tools, and distributed object models.

## Prerequisites

Students must have CIW Foundations certification or equivalent experience, and have completed the *Java Programming Fundamentals* course or have a working knowledge of Java and client and server programming.

## Duration

12 hours