



**Customization &
Basic Development
Training Course Guide**

2008

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I.Course Summary

The objective of Customization and Basic Development Training is to give partners and developers the chance to learn the **fundamental technical knowledge** required to perform a **basic Openbravo ERP implementation**.

At the same time we will use this knowledge instantly to **do a real implementation** with a **fictitious end-client**, an eco-friendly car manufacturer. We will call it **EcoCar Company**. We will specify **its functional and data requirements** which will serve as our starting point. With the help of the instructor you will then continue to execute this implementation throughout the course as you are learning the corresponding elements of Openbravo. By the end of the course **you will have implemented a complete real life instance of Openbravo according to specifications given**.

This course **does not include** the review of the **functional knowledge and basic customization** required to complete an implementation which is given during the 5-day Basic Functional Training.

II.Audience: Who is training aimed at?

Training is designed for potential and current and potential partners, consultants, developers, and any trainee looking to implement Openbravo ERP.

Basic knowledge of the system and database administration, software stack and programming languages Openbravo runs on is recommended and makes for a much more valuable course experience.



III. Conference Schedule

During the five - day training, the Openbravo team delivers a specific set of training modules, broken up into the following schedule:

	Day 1	Day 2	Day 3	Day 4	Day 5
9:00	Arrival and Check in	Maintenance Procedures	MDD Examples	MVC Examples	EcoCar Implementation
10:00		Basic Customization and EcoCar Implementation			
11:00	Welcome		Jasper Reporting	Q&A Session	
12:00	Introduction To Openbravo				
13:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14:00	Installation of Openbravo	Openbravo Architecture	MVC Framework Concepts	Jasper Reporting	Conclusions
15:00					
16:00	MDD Concepts	MVC Examples	EcoCar Implementation		
17:00					
18:00					
19:00					

IV. Course Description

I. Introduction to Openbravo and the EcoCar Implementation

This first module will introduce Openbravo ERP system and review some topics that should be mastered during the Basic Functional Training course.

We will also describe our **EcoCar implementation** and its **functional requirements** since the topics and learning's are designed around it.

Duration: 1.5h

I.1 Openbravo Installation and Administration



Session	Description	Objective	Duration
Installation of Openbravo	Installation process: - Oracle instance configuration, connectivity, and performance adjustments. - Apache – Tomcat: Log files, HTTP compression and encryption, network configuration. - Ant - WAD: File structure, running WAD.	Understand the most relevant aspects of Openbravo and its operating environment. Main configurations and adjustments. Identification of the most common configuration mistakes.	4 hours
Maintenance Procedures	Procedures to keep Openbravo optimized, secure and running	Learn how to do simple Oracle DB maintenance Basics of Tomcat administration Describe some of Openbravo's installation parameters	1 hour
EcoCar Impl. (Step 1)	Specifics of the installation according to end-client requirements	Learn which elements of the system affect fundamental behavior of Openbravo installation	0.5 hours

I.2 Customizing EcoCar Implementation

Session	Description	Objective	Duration
EcoCar Impl. (Step 2)	Basic Customization	Review the procedures learned during Basic Functional Training course. Perform initial steps to set up a new entity. Input end-client organizational structure Input roles & users	2 hours



Session	Description	Objective	Duration
EcoCar Impl. (Step 3)	Master Data Management	Review the procedures learned during Basic Functional Training course. Understand the data file formats that we can input into Openbravo. Import a business partner. Import a product. Input some master data such as vendors and employees	2 hours

I.3 Developments

Session	Description	Objective	Duration
MDD Architecture Concepts	Openbravo Architecture, MDD concepts, system metadata: <ul style="list-style-type: none"> - Tables and columns - Windows, tabs, fields - Elements - References - Call-outs - Processes - Reports - Menus - Workflows - Trees 	Understand the stack Openbravo runs on and how they are integrated. Description of the most important metadata areas which make up Openbravo's dictionary. Understand the relationship between metadata and the system created from it.	3 hours
MDD Examples	Introduce examples of MDD use with the aim of understanding the concepts presented in the previous session. <p>Practice key learnings acquired in the previous session:</p> <ul style="list-style-type: none"> - Hide a field in edition and in relation - Change default and mandatory values - Change presentation (field order, same line) - Add display logic - Add validations - Modify lists (adding new values) - Change the order of tabs 	Understand the process to modify existing windows by means of the addition of the MDD dictionary and the execution of WAD.	3 hours



Session	Description	Objective	Duration
MDD Examples - EcoCar Impl. (Step 4)	Basic Developments	Insert new database tables. Introduce a new window.	2 hours
MVC Framework	MVC introduction and concepts: - XmlEngine - Sqlc - HttpBaseServlet - Others	Learn the various possibilities of using MVC framework	2 hours
MVC Examples	Integration, use and development of Jasper Reports within Openbravo.	Explain how Jasper Report libraries are used within Openbravo. Use of iReport tool to design reports for Openbravo. Develop a new report with Jasper as well as add additional functionality to an existing one.	3.5 hours
EcoCar Impl. (Step 5)	Basic Developments	Develop a new report. Develop a basic database process.	5 hours

I.4 Q&A Session and Conclusions

Before the end of the course we will review the week's learnings and objectives we have reached. According to attendees we will elaborate on some of the topics that you believe need extra explanation and answer the questions you might have.

Duration: 2h

V.Required Material

The only requirement for each partner and developer is to come with a **HIGH PERFORMANCE LAPTOP**. This roughly means:

- a minimum of 1Gb RAM
- fairly new processor (min 1.8GHz, dual-core or equivalent)
- 5Gb of free harddisk space
- should not have any version of Openbravo ERP installed. All other materials will be provided by Openbravo.



VI. Language

Trainings are given in English or Spanish depending on the specific course. Please see the details on the web:

<http://www.openbravo.com/services/by-service/training/scheduled-training/>

VII. Conference Location and Hotel Booking

Conference Location depends on the specific course. Plse see the details on the web:

<http://www.openbravo.com/services/by-service/training/scheduled-training/>

VIII. Price and Registration

Please check the information on-line:

<http://www.openbravo.com/services/by-service/training/scheduled-training/>



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Openbravo reserves the right to change the timing of sessions throughout the training days, as well as the order in which material is presented. Openbravo also reserves the right to cancel or move the dates of the training session up until 3 weeks prior to the start date.