



Technical Training Agenda

I. Introduction

- About Odoo
- Odoo Explained
- Community vs. Enterprise

II. Setting Up Odoo

- Installing Odoo
 - Detailed installation explained: Demo, SaaS, packaged installers, source install
- Deploying Odoo
 - Command line options, instance security, and PostgreSQL options explained
- Odoo Community → Odoo Enterprise
- Running Odoo

III. Building an Odoo Module/App

- Composition of a module
 - Elements of an Odoo Module/App
- Module structure
 - Odoo App description and manifest
- Object-Relational Mapping (ORM)
 - Framework explained (ORM API)
 1. Model - Core Object
 2. Recordsets
 3. Environment
 4. Common ORM Methods
 5. Creating Models
 - Model Fields
 1. Common Field Attributes
 2. Simple Fields (Boolean, Date, Char, Integer, etc.)
 3. Reserved Fields
 4. Special Fields (_name, _rec_name)

IV. Data Files

- Basic XML Structure
- Core Operations
- Shortcuts

V. Basic Views

- Generic View Declaration
 - Tree views, form views, search views
- Actions and Menus



Technical Training Agenda

VI. Relationships Between Modules

- Relational Fields
 - Relational field types (Many2one, One2many, Many2many)

VII. Inheritance

- Model Inheritance
 - Various flavor inheritance explained to extend an existing model in a modular way
- View Inheritance
- Domains
 - Encoding conditions on records

VIII. Computed Fields and Default Values

- Self-computed Fields
- Dependencies
- Default Values in Odoo

IX. onChange Fields

X. Model Constraints

- Python Constraints
- SQL Constraints

XI. Advanced Views

- Advanced Tree View Options
- Form Views in Detail
- Calendar Views
- Gantt Views
- Graph Views
- Pivot Views
- Kanban Views

XII. Business Process/Workflows

- Implementing Business Process/Workflows
 - Basics
 - Activities
 - Transitions

XIII. Odoo Security

- User Login, Signup, and Authentication
- Group-based Access Control Mechanisms
- Access Control
- Record Rules
- Workflow Transition Rules
- Field Access



Technical Training Agenda

XIV. Wizards/Transient Model

- Defining Wizard
- Launching Wizards
- Interactive Wizard Operations

XV. Reporting

- qWeb Reports
- Dashboards

XVI. Internationalization

- Odoo Module/App Translation

XVII. Web Services Explained

- XML-RPC
- JSON-RPC