VexaNext

CAREER PROGRAM · 5 MONTHS · ODOO 19 & 20

Odoo ERP Techno-Functional Development

From functional consultant to Odoo developer — a career-oriented path, built on real projects.

42	21	105 / 84	1
live sessions	weeks	hrs offline / online	deployed capstone

Corporate Offline Batch

Online Live · BDT 17,000 (5 months)

Recorded Crash Course · BDT 5,000

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Syllabus · Course Plan · Pricing

PROGRAM OVERVIEW

Program at a glance

A 5-month, career-oriented program that takes learners from understanding how a business runs in Odoo to building, securing, integrating and deploying custom Odoo modules. Every phase ends in a working deliverable, and the program closes with a deployed capstone and a job-ready portfolio.

5 months	42	105 / 84 hrs	40+
21 weeks · 2 classes per week	instructor-led sessions	contact hours offline / online	hands-on labs & deliverables

Who this program is for

- Fresh CSE / IT / BBA graduates targeting ERP careers
- Odoo functional consultants who want to code
- Accountants and business analysts moving into ERP implementation
- In-house IT teams of companies running Odoo
- Developers from other stacks switching to Odoo

Prerequisites

- Basic computer & internet skills; any programming exposure helps
- Laptop: 8 GB RAM minimum (16 GB recommended), Ubuntu or Windows with WSL
- No prior Odoo experience required

What graduates can do

- Map business processes and write a Fit/GAP and scope document
- Configure Sales, Purchase, Inventory, Accounting, MRP, HR and POS
- Write Python, SQL and Git like a working developer
- Build custom models, views, security, workflows and wizards
- Extend standard Odoo apps through inheritance
- Design QWeb reports, automations and OWL frontend widgets
- Integrate Odoo with external systems via JSON-RPC, JSON-2 and FastAPI
- Migrate data, write tests, upgrade versions and deploy to production

Why Functional to Technical? Most Odoo projects fail at the hand-off between what the business needs and what the developer builds. Graduates of this program speak both languages — the most in-demand profile in Odoo partner firms across Bangladesh and the GCC.

COURSE STRUCTURE

The learning journey

Five phases, each building on the last. Functional understanding comes first, so every line of code is written with the business process in mind.

01 **Odoo Functional Foundations**
Understand business processes end to end and configure core Odoo apps like a functional consultant.
Weeks 1–5 · Months 1–2 · 10 sessions

02 **Developer Foundations**
Build the Python, SQL, Linux and Git base every Odoo developer needs, then ship a first module.
Weeks 6–8 · Month 2 · 6 sessions

03 **Core Odoo Development**
Master the ORM, views, inheritance, security and workflows that make up 80% of real Odoo work.
Weeks 9–13 · Month 3 · 10 sessions

04 **Advanced Development & Integration**
Reports, automation, OWL frontend, controllers, external APIs, FastAPI and localization.
Weeks 14–17 · Month 4 · 8 sessions

05 **Delivery, Deployment & Career**
Migrate data, test, upgrade, deploy to production, build the capstone and get job-ready.
Weeks 18–21 · Month 5 · 8 sessions

Delivery formats

	Corporate Offline Batch	Online Live Program	Recorded Crash Course
Scope	Full 5-month syllabus	Full 5-month syllabus	Technical development only
Schedule	2 classes / week	2 classes / week	Self-paced
Session length	2 hr 30 min	2 hr	17 recorded modules
Total contact hours	105 hrs	84 hrs	~38 hrs of video
Labs & mentor review	In class + GitHub	Live + GitHub	Exercise files
Capstone & certificate	Yes	Yes	Completion certificate
Fee	As per corporate agreement	BDT 17,000 total (5 months)	BDT 5,000 one-time

The offline batch runs 30 extra minutes per session for supervised lab time and on-the-spot code review.

PHASE 1 OF 5 · WEEKS 1–5

Odoo Functional Foundations

Understand business processes end to end and configure core Odoo apps like a functional consultant.

#	Wk	Session & key topics	Lab / deliverable	Level
01	1	**ERP Concepts & the Odoo Ecosystem** What ERP solves · Odoo apps landscape · Community vs Enterprise · Odoo Online, Odoo.sh, on-premise · Implementation methodology · Functional, technical and techno-functional roles	Create an Odoo trial DB and map 5 departments of a sample company to Odoo apps	Beginner
02	1	**Odoo Navigation, Settings & Multi-Company** Users & access · Companies, branches, currencies · General settings · Developer mode & technical menu tour · Contacts & products master data	Configure a 2-company setup with users, currencies and product categories	Beginner
03	2	**CRM & Sales: Order-to-Cash** Leads, opportunities, pipeline stages · Quotations, templates, pricelists, discounts · Sales teams · Order-to-delivery-to-invoice flow	Run a full lead-to-invoice cycle with a pricelist and quotation template	Beginner
04	2	**Purchase & Procure-to-Pay** RFQ & purchase orders · Vendor pricelists · Purchase agreements · Receipts & 3-way matching · Vendor bills	Run an RFQ-to-bill cycle with 3-way matching	Beginner
05	3	**Inventory & Warehouse Management** Warehouses, locations, routes · 1/2/3-step receipts & deliveries · Lots & serials · Reordering rules · Valuation: FIFO, AVCO, standard	Configure a 2-warehouse setup with routes and reordering rules	Intermediate
06	3	**Accounting & Finance Essentials** Chart of accounts & journals · Invoices, bills, payments · Bank reconciliation · Taxes incl. BD VAT, VDS, TDS · Financial reports	Post a month of transactions and reconcile the bank	Intermediate
07	4	**Manufacturing (MRP)** Bills of materials & variants · Work centers & operations · Manufacturing orders · Component consumption & costing · Subcontracting overview	Build a BoM and run an MO with work orders	Intermediate
08	4	**HR, Attendance, Leave & Expenses** Employees & departments · Attendance & time off · Expenses & approvals · Payroll concepts · Employee self-service	Set up a leave-approval and expense-claim flow	Intermediate
09	5	**POS, Website & eCommerce** Point of Sale sessions & payment methods · Restaurant features · Website builder · eCommerce checkout & payment providers	Launch a demo shop and run a POS session	Intermediate
10	5	**Business Process Mapping & Fit/GAP** Requirement gathering · Process flow diagrams · Fit/GAP analysis · BRD & scope writing · Data import/export · Studio & no-code limits · Functional assessment	Assessment 1: Fit/GAP report for a real-world case study	Intermediate

PHASE 2 OF 5 · WEEKS 6–8

Developer Foundations

Build the Python, SQL, Linux and Git base every Odoo developer needs, then ship a first module.

#	Wk	Session & key topics	Lab / deliverable	Level
11	6	**Python Essentials I** Syntax, variables, data types · Lists, dicts, tuples, sets · Control flow · Functions & arguments · Comprehensions	20 Python exercises auto-graded	Beginner
12	6	**Python Essentials II: OOP for Odoo** Classes & objects · Inheritance & super() · Decorators · Modules & packages · Exceptions · How these map to Odoo models	Model a mini inventory system with classes and decorators	Beginner
13	7	**PostgreSQL & SQL for Odoo** Tables, keys, joins · Aggregates & group by · Odoo database schema (res_partner, sale_order, account_move) · pgAdmin / psql · Reading Odoo data safely	SQL lab: 15 business queries on an Odoo database	Intermediate
14	7	**Linux, Git & Developer Tooling** Terminal essentials · Python venv & pip · Git branching, merge, pull requests · GitHub workflow · VSCode + debugger setup	Push a repo with a feature branch and pull request	Beginner
15	8	**Odoo Architecture & Source Setup** MVC in Odoo · Server, ORM, web client layers · Source install of Odoo · odoo.conf, addons path, logging · Module folder anatomy	Run Odoo from source with a custom addons path in debug mode	Beginner
16	8	**Your First Custom Module** __manifest__.py keys · __init__.py import chain · Dependencies & categories · Install / upgrade cycle · Data & demo files	Build and install a 'Service Desk' starter module	Beginner

PHASE 3 OF 5 · WEEKS 9–13

Core Odoo Development

Master the ORM, views, inheritance, security and workflows that make up 80% of real Odoo work.

#	Wk	Session & key topics	Lab / deliverable	Level
17	9	**Models & Basic Fields** models.Model · Char, Text, Integer, Float, Monetary, Boolean, Date, Datetime, Binary, Html, Selection · _name, _description, _rec_name, _order	Model 'Service Request' with 8+ field types	Intermediate
18	9	**Relational Fields & Data Modelling** Many2one, One2many, Many2many · ondelete rules · Related fields · Designing models from a Fit/GAP	Add customers, technicians and service lines to the module	Intermediate
19	10	**Computed Fields, Constraints & Onchange** @api.depends stored vs non-stored · Inverse & search methods · @api.constrains · @api.onchange · SQL constraints	Auto-compute totals and validate business rules	Intermediate
20	10	**ORM Methods, Recordsets & Domains** search, browse, create, write, unlink · Domain syntax · filtered, mapped, sorted · sudo, with_context, with_user · Odoo shell	Script: list unpaid invoices older than 30 days	Intermediate
21	11	**Form & List Views** Form anatomy: header, sheet, chatter · Groups, notebooks, pages · List views: optional columns, decorations, editable · Buttons: object vs action	Full form + list view for Service Request	Intermediate
22	11	**Kanban, Search, Pivot, Graph & Menus** Kanban cards & stages · Search view: filters, group by, searchpanel · Pivot, graph, calendar views · Window actions & menus	Kanban board + 3 filters + pivot report	Intermediate
23	12	**Inheritance: Extending Standard Odoo** _inherit vs _inherits vs prototype · View inheritance & XPath · Overriding create/write & super() · Extending sale.order and account.move	Add a custom field + logic to Sales Order and Invoice	Advanced
24	12	**Security: Groups, Access Rights & Record Rules** res.groups & categories · ir.model.access.csv · ir.rule domains · Field and view-level groups · Multi-company rules	Manager sees all, user sees own requests	Advanced
25	13	**Business Workflows, Chatter & Activities** State fields & statusbar · action_confirm / done / cancel · mail.thread & mail.activity.mixin · message_post & tracking	3-stage approval workflow with tracked chatter	Advanced
26	13	**Wizards (TransientModel) + Mid-Program Exam** TransientModel lifecycle · Dialog wizards · Passing context & active_ids · Returning actions · Practical exam	Assessment 2: build a feature end to end in 90 minutes	Advanced

PHASE 4 OF 5 · WEEKS 14–17

Advanced Development & Integration

Reports, automation, OWL frontend, controllers, external APIs, FastAPI and localization.

#	Wk	Session & key topics	Lab / deliverable	Level
27	14	**QWeb PDF Reports** ir.actions.report · QWeb t-if, t-foreach, t-field · External layout, header & footer · Paper formats · Custom invoice/delivery templates	Branded PDF job card for Service Request	Advanced
28	14	**Automation: Cron, Server & Automated Actions** ir.cron scheduling · base.automation triggers · Server actions with Python code · Email templates & mail.mail	Auto-email reminder 3 days before deadline	Advanced
29	15	**OWL Frontend I: Components & Assets** Modern JavaScript recap · OWL components, props, state, hooks · Asset bundles · Registries & services	Build a custom dashboard client action	Advanced
30	15	**OWL Frontend II: Widgets & POS Customization** Custom field widgets · Patching existing components · POS customization basics · Debugging the web client	Custom status widget + POS receipt tweak	Advanced
31	16	**Website, HTTP Controllers & Portal** http.Controller & routes · auth types & CSRF · QWeb website templates · Customer portal pages	Portal page where customers track their requests	Advanced
32	16	**External APIs: JSON-RPC, XML-RPC & JSON-2** External API authentication & API keys · call_kw structure · xmlrpc.client scripts · JSON-2 API (Odoo 19+) · Webhooks	Sync contacts from an external script	Advanced
33	17	**FastAPI + Odoo Integration** FastAPI & Uvicorn setup · Pydantic schemas · REST endpoints reading/writing Odoo · Auth & error handling · Background tasks	FastAPI service: POST /leads creates an Odoo CRM lead	Advanced
34	17	**Localization & Customizing Standard Flows** Bangladesh VAT, VDS & TDS patterns · Payment gateway & SMS integration · Extending inventory and accounting flows · Fiscal positions	Mushak-style tax report customization	Advanced

PHASE 5 OF 5 · WEEKS 18–21

Delivery, Deployment & Career

Migrate data, test, upgrade, deploy to production, build the capstone and get job-ready.

#	Wk	Session & key topics	Lab / deliverable	Level
35	18	**Data Migration & Import Engineering** External IDs & import templates · Cleaning legacy data · Opening balances · Scripted migration via ORM/API · Validation checklists	Migrate 1,000+ records from a legacy Excel system	Advanced
36	18	**Testing, Debugging & Performance** TransactionCase & HttpCase · Tours · Logging & pdb · Profiler & SQL query optimization · Common performance traps	Write 10 unit tests for the capstone module	Advanced
37	19	**Upgrades, OCA & Code Quality** Version upgrade path · Migration scripts · OCA modules & guidelines · pre-commit, pylint-odoo · Code review practice	Port a module between Odoo versions	Advanced
38	19	**On-Premise Deployment** Ubuntu server + PostgreSQL · Odoo as systemd service · Nginx reverse proxy + SSL (Certbot) · Workers & odoo.conf for production · Backups	Deploy to a VPS with Nginx + SSL	Advanced
39	20	**Odoo.sh, Docker & CI/CD** Odoo.sh branches: dev, staging, production · Docker Compose for Odoo · GitHub Actions basics · Monitoring & logs	Containerized staging environment	Advanced
40	20	**Capstone Sprint I** Team kickoff · Requirement + Fit/GAP · Data model & security design · Sprint planning	Capstone design document approved	Capstone
41	21	**Capstone Sprint II & Code Review** Build workflows, reports, portal & API · Peer code review · Mentor review · Deploy to staging	Working module on staging server	Capstone
42	21	**Demo Day & Career Launch** Client-style demo · CV & GitHub portfolio · Mock technical interview · Odoo certification roadmap · Freelance & job market guidance	Final presentation + graduation	Capstone

Capstone project options

- Restaurant & Cloud Kitchen ERP (multi-outlet POS, recipe costing)
- School & College Management (admission, attendance, fees)
- Service & Maintenance Management (job cards, technicians, SLA)
- Garments / Manufacturing Production Tracker (orders, lines, QC)
- Distribution & Field Sales (routes, credit limits, collections)

Teams of 2–4 build one module end to end: data model, security, workflow, QWeb report, portal page, API endpoint, tests, and a staging deployment.

COURSE PLAN

21-week schedule

Two sessions every week. Corporate batches can map Class A / Class B to any agreed weekdays.

Week	Month	Class A	Class B	Phase
01	M1	01 · ERP Concepts & the Odoo Ecosystem	02 · Odoo Navigation, Settings & Multi-Company	P1
02	M1	03 · CRM & Sales: Order-to-Cash	04 · Purchase & Procure-to-Pay	P1
03	M1	05 · Inventory & Warehouse Management	06 · Accounting & Finance Essentials	P1
04	M1	07 · Manufacturing (MRP)	08 · HR, Attendance, Leave & Expenses	P1
05	M2	09 · POS, Website & eCommerce	10 · Business Process Mapping & Fit/GAP	P1
06	M2	11 · Python Essentials I	12 · Python Essentials II: OOP for Odoo	P2
07	M2	13 · PostgreSQL & SQL for Odoo	14 · Linux, Git & Developer Tooling	P2
08	M2	15 · Odoo Architecture & Source Setup	16 · Your First Custom Module	P2
09	M3	17 · Models & Basic Fields	18 · Relational Fields & Data Modelling	P3
10	M3	19 · Computed Fields, Constraints & Onchange	20 · ORM Methods, Recordsets & Domains	P3
11	M3	21 · Form & List Views	22 · Kanban, Search, Pivot, Graph & Menus	P3
12	M3	23 · Inheritance: Extending Standard Odoo	24 · Security: Groups, Access Rights & Record Rules	P3
13	M3	25 · Business Workflows, Chatter & Activities	26 · Wizards (TransientModel) + Mid-Program Exam	P3
14	M4	27 · QWeb PDF Reports	28 · Automation: Cron, Server & Automated Actions	P4
15	M4	29 · OWL Frontend I: Components & Assets	30 · OWL Frontend II: Widgets & POS Customization	P4
16	M4	31 · Website, HTTP Controllers & Portal	32 · External APIs: JSON-RPC, XML-RPC & JSON-2	P4
17	M4	33 · FastAPI + Odoo Integration	34 · Localization & Customizing Standard Flows	P4
18	M5	35 · Data Migration & Import Engineering	36 · Testing, Debugging & Performance	P5
19	M5	37 · Upgrades, OCA & Code Quality	38 · On-Premise Deployment	P5
20	M5	39 · Odoo.sh, Docker & CI/CD	40 · Capstone Sprint I	P5
21	M5	41 · Capstone Sprint II & Code Review	42 · Demo Day & Career Launch	P5

OUTCOMES

Assessment, certification & career

Learners are assessed on what they build, not what they memorise.

Component	Weight	When / how
Weekly labs & assignments	**25%**	Lab deliverable per session, reviewed on GitHub
Assessment 1: Functional Fit/GAP	**10%**	Session 10 — written case study
Assessment 2: Mid-program practical	**20%**	Session 26 — timed build exam
Capstone project	**35%**	Sessions 40–42 — code, deployment and demo
Attendance & participation	**10%**	Minimum 80% attendance required

Certificate: VexaNext Certified Odoo Techno-Functional Developer — awarded at 60% overall score, 80% attendance and a deployed capstone.

Career pathways

Odoo Functional Consultant
Configure apps, map processes, train users

Junior Odoo Developer
Build and maintain custom modules

Techno-Functional Consultant
Bridge client requirements and code

ERP Implementation Associate
Data migration, testing, go-live support

Career support included

- CV and LinkedIn review tailored to Odoo roles
- GitHub portfolio with every lab and the capstone module
- Mock functional and technical interviews
- Odoo Functional Certification preparation roadmap
- Guidance on freelancing marketplaces and the Odoo partner job market

INVESTMENT

Pricing & enrolment options

Three ways to learn — choose the format that fits your team or your career.

CORPORATE

Offline Batch

On agreement

Quoted per corporate agreement

- Full 5-month syllabus
- 2 classes / week · 2 hr 30 min
- 105 contact hours
- At your office or our Dhanmondi classroom
- Labs built on your own processes
- Capstone + certificate

MOST POPULAR

Online Live

BDT 17,000

total fee · full 5-month program

- Full 5-month syllabus
- 2 live classes / week · 2 hr
- 84 contact hours
- Live Q&A; in every class
- Mentor review on GitHub
- Capstone + certificate + career support

SELF-PACED

Recorded Crash Course

BDT 5,000

one-time · lifetime access

- Technical development only
- 17 recorded modules (~38 hrs)
- Exercise files per module
- FastAPI, APIs and deployment included
- Completion certificate

Online live — program fee

One total fee of **BDT 17,000** covers the complete 5-month Online Live program: 42 live sessions (84 contact hours), all labs and mentor reviews, the capstone project, certification and career support.

Corporate offline — what the agreement covers

Batch size (recommended 8–20 participants) · venue (client premises or VexaNext classroom) · labs customised to your business processes and Odoo database · Community or Enterprise edition · weekday, weekend or after-hours schedule · optional post-training mentoring hours · milestone-based payment terms.

SELF-PACED OPTION · BDT 5,000

Recorded technical crash course

Technical development only — for learners who already know Odoo functionally and want a fast, focused path into module development, APIs and deployment.

#	Module	Track	Key topics	Hrs
01	Odoo Architecture & Dev Environment Setup	Foundation	MVC in Odoo · Source install · VSCode + odoo.conf + debug mode · Module file structure	2
02	Creating Your First Custom Module	Foundation	__manifest__.py keys · __init__.py chain · Dependencies · Install/upgrade cycle	2
03	Models & Fields — The Odoo ORM	ORM & Data	Basic & relational fields · Selection & Html · _name, _rec_name, _order	2
04	Computed Fields, Constraints & Onchange	ORM & Data	@api.depends · @api.constrains · @api.onchange · SQL constraints	2
05	ORM Methods & Recordset Operations	ORM & Data	CRUD methods · Domains · filtered/mapped/sorted · sudo & context	2
06	Form & List Views — XML Architecture	Views & UI	Form anatomy · Notebooks & pages · List decorations · Buttons	2
07	Search Views, Filters & Group By	Views & UI	Filters & group by · Searchpanel · Window actions	2
08	View Inheritance & Module Extension	Views & UI	XPath · _inherit vs _inherits · Extending sale.order	2
09	Business Methods, Workflows & Status Bars	Backend Logic	State patterns · Action methods · Chatter & message_post	2
10	Wizards (TransientModel)	Backend Logic	Wizard lifecycle · Dialog forms · Context passing	2
11	Security — Groups, Access Rights & Record Rules	Backend Logic	ir.model.access.csv · res.groups · ir.rule	2
12	QWeb Reports — PDF & Print Layouts	Advanced	ir.actions.report · QWeb directives · Layouts	2
13	Scheduled Actions & Automated Rules	Advanced	ir.cron · base.automation · Email templates	2
14	FastAPI + Odoo Integration	FastAPI	FastAPI setup · RPC from FastAPI · Pydantic · Auth	2
15	External API & JSON-RPC Deep Dive	FastAPI	call_kw · xmlrpc.client · HTTP controllers · Webhooks	2
16	On-Prem & Cloud Deployment	Deployment	Ubuntu + PostgreSQL + Nginx · SSL · systemd · Backups	2
17	Capstone — Full Custom Module Build	Capstone	Service Request module built end to end and deployed	6
	Total recorded content			38

VexaNext

Start your Odoo career.

Book a seat, request a corporate batch proposal,
or get instant access to the recorded crash course.

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