

Power Apps, Automate, & Copilot Studio

• Real-Time Working • Detailed Subject • Interview Suitable

- Mr. Vijay [10+ Years of IT Experience, Currently Working]
- 90 hrs (Normal Track), Daily 1 hour
- Rs. 25,000, USD allowed
- Multiple timings available
- Other Modes: Fast Track / 1 on 1 / Customized/ Self-Paced Videos



INSTITUTE PROVIDES

- * One **Near Real Time** Project
- * In-Depth **Theory & Practical** Material
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- * Mock Interviews
- * Case Studies / User Stories / Sprints
- * Daily **Live Class Videos**
- * **FAQ Tests** in Whatsapp
- * **Resume Preparation** Sessions

Concepts

1. Power Platform Foundation
2. Canvas Apps Development
3. Power Fx & Advanced Canvas Apps
4. Microsoft Dataverse & Data Modeling
5. Model-Driven Apps
6. Power Automate – Cloud Flows & Automation
7. Advanced Integration & APIs
8. ALM, Security & Governance
9. AI Builder & Copilot Studio
10. End-to-End Capstone Project

COMPONENTS

Power Apps Canvas & Model-Driven Apps	Power Fx & Advanced Formulas
UI Controls & Responsive Design	Galleries, Forms & CRUD
Search, Filter & Sort	Microsoft Dataverse
Data Modeling & Relationships	Business Rules & Security
Power Automate Cloud Flows	Triggers, Actions & Expressions
Variables & Data Operations	Approvals & Error Handling
JSON & Advanced Flows	OData, FetchXML & REST APIs
Custom Connectors & Gateway	Solutions & ALM
Security & Governance	AI Builder & Copilot Studio
Power BI Integration	End-to-End Capstone Project

MODULE 1 – POWER PLATFORM FOUNDATION

1.1 Introduction to Microsoft Power Platform

- What is Microsoft Power Platform?
- Power Apps
- Power Automate
- Microsoft Dataverse
- Power BI
- Copilot Studio
- Power Pages
- Power Platform architecture
- Business use cases

1.2 Introduction to Power Apps

- What is Power Apps?
- Canvas Apps
- Model-Driven Apps
- Canvas vs Model-Driven Apps
- When to use which app
- Power Apps development lifecycle

1.3 Power Platform Studio & Environments

- Power Apps Studio
- Power Platform environment
- Development / Test / Production environments
- Basic environment setup
- Power Platform Admin Center overview
- Environment strategy

MODULE 2 – CANVAS APPS DEVELOPMENT

2.1 Canvas Apps Fundamentals

- Canvas App architecture
- Creating Canvas Apps
- Blank Apps
- Templates
- App interface
- Screens
- Screen properties
- App properties
- Data sources

2.2 Canvas UI & Controls

- Labels
- Text Input
- Buttons
- Dropdown
- Combo Box
- Date Picker
- Checkbox
- Toggle
- Radio
- Icons
- Images
- Containers
- Modern controls
- Control properties
- Events and formulas

2.3 Navigation & User Experience

- Navigate
- Back
- Screen parameters
- Notify
- Reset
- Visible property
- DisplayMode
- Conditional UI
- Popup/dialog design
- Basic application UX

2.4 Galleries

- Gallery fundamentals
- Vertical galleries
- Horizontal galleries
- Flexible-height galleries
- Gallery templates
- Selected item
- Gallery customization
- Dynamic galleries

2.5 Search, Filter & Sort

- Filter
- Search
- LookUp
- Sort
- SortByColumns
- Multiple conditions
- Dynamic search
- Dynamic sorting
- Search-driven applications

2.6 Forms

- Display Form
- Edit Form
- New Form
- Data Cards
- SubmitForm
- ResetForm
- NewForm
- Required fields
- Validation
- OnSuccess
- OnFailure

2.7 CRUD Operations

- Create
- Read
- Update
- Delete
- Form-based CRUD
- Basic Patch
- Working with Dataverse/SharePoint data

2.8 Attachments & File Handling

- Attachment control
- Uploading files
- Multiple attachments
- SharePoint attachments
- Dataverse file/attachment scenarios

2.9 Canvas App Project

MODULE 3 — POWER FX & ADVANCED CANVAS APPS

3.1 Power Fx Fundamentals

- Power Fx syntax
- Expressions
- Operators
- Text functions
- Number functions
- Date/Time functions
- Logical functions

3.2 Conditional Logic

- If
- Nested If
- Switch
- And
- Or
- Not
- Conditional formatting

3.3 Variables

- Global variables
- Context variables
- Set
- UpdateContext
- Variable scope

3.4 Collections

- Collect
- Clear
- ClearCollect
- Collection structure
- Temporary data
- Working with collections

3.5 Data Manipulation

- Patch
- Update
- UpdateIf
- Remove
- RemoveIf
- Defaults

3.6 Advanced Power Fx

- ForAll
- With
- Concurrent
- Coalesce
- IsBlank
- IsEmpty
- Record manipulation
- Table manipulation

3.7 Delegation

- What is delegation?
- Delegation warnings
- Delegable vs non-delegable functions
- Large datasets

- Filter delegation
- Search delegation
- Sort delegation
- Delegation limitations
- Practical solutions

3.8 Components & Responsive Design

- Components
- Component properties
- Reusable components
- Component libraries
- Containers
- Responsive layouts
- Horizontal/Vertical containers

3.9 Advanced Canvas Scenarios

- Cascading dropdowns
- Dynamic forms
- Conditional fields
- Mandatory fields
- Advanced validation
- Error handling
- Performance optimization

MODULE 4 — MICROSOFT DATAVERSE & DATA MODELING

4.1 Dataverse Fundamentals

- What is Dataverse?
- Dataverse architecture
- Tables
- Columns
- Rows
- Views
- Forms
- Dataverse vs SharePoint

4.2 Dataverse Tables

- Standard tables
- Custom tables
- Table creation
- Primary column
- Table ownership
- Table properties

4.3 Dataverse Columns

- Text
- Number
- Decimal
- Currency
- Date/Time
- Yes/No
- Choice
- Multi-select Choice
- Lookup
- Image
- File
- Formula
- Calculated
- Rollup

4.4 Relationships

- One-to-Many
- Many-to-One
- Many-to-Many
- Self-referencing relationships
- Relationship behavior
- Cascading behavior

4.5 Keys & Data Modeling

- Primary keys
- Alternate keys
- Entity design
- Relational data modeling
- Normalization
- Business data model
- Designing scalable Dataverse models

4.6 Choices & Business Rules

- Choice columns
- Global choices
- Business Rules
- Conditions
- Set values
- Show/Hide
- Lock/Unlock
- Validation

4.7 Dataverse Forms

- Main forms
- Quick Create
- Quick View
- Tabs
- Sections
- Columns
- Subgrids
- Form configuration

4.8 Dataverse Views

- Public views
- System views
- Quick Find
- Lookup views
- Filtering
- Sorting
- View customization

4.9 Dataverse Security

- Users
- Teams
- Security roles
- Business units
- Ownership
- Access levels
- Record-level access

4.10 Data Management

- Data import
- Data export
- Data validation

- Duplicate management
- Auditing

4.11 Dataverse Integration

- Dataverse + Power Apps
- Dataverse + Power Automate
- Dataverse + Power BI
- Dataverse + Teams
- Web API/OData Overview

MODULE 5 — MODEL-DRIVEN APPS

5.1 Model-Driven Apps Fundamentals

- What is a Model-Driven App?
- Architecture
- Canvas vs Model-Driven
- Dataverse dependency

5.2 Solutions & Publisher

- Solutions
- Publishers
- Solution components
- Solution-aware development

5.3 App Designer

- Create Model-Driven App
- App navigation
- Tables
- Site Map
- Areas
- Groups
- Subareas

5.4 Forms

- Main forms
- Quick Create
- Quick View
- Tabs
- Sections
- Columns
- Subgrids
- Business rules

5.5 Views

- Public views
- System views
- Quick Find
- Lookup views
- Editable grids
- Power Apps Grid

5.6 Charts & Dashboards

- Charts
- System dashboards
- Personal dashboards
- Business dashboards
- Data visualization

5.7 Business Process Flows

- BPF architecture
- Stages
- Steps
- Conditions
- Branching
- Validation
- Business scenarios
- BPF + Power Automate

5.8 Command Bar

- Command Bar Overview
- Buttons
- Visibility
- Enable/disable logic
- Basic customization

5.9 Advanced Model-Driven App Customization

- JavaScript Fundamentals for Power Apps
- Form Events
 - OnLoad
 - OnChange
 - OnSave
- Form Context
- Field & Control Manipulation
- Client-Side Validation
- Dataverse Web **with JavaScript**
- Advanced Command Bar Customization

MODULE 6 — POWER AUTOMATE

6.1 Introduction to Power Automate

- Workflow
- Automation
- Triggers
- Actions
- Connectors
- Templates

6.2 Types of Flows

- Automated Cloud Flows
- Instant Cloud Flows
- Scheduled Cloud Flows
- Business Process Flows
- Desktop Flows – overview

6.3 Triggers & Actions

- Trigger configuration
- Trigger conditions
- Actions
- Dynamic content
- Action settings
- Expressions

6.4 Variables

- String
- Integer
- Boolean
- Array

- Object
- Initialize variable
- Set variable
- Increment variable
- Append to array/string

6.5 Dataverse CRUD

- Add row
- Get row
- List rows
- Update row
- Delete row
- Dataverse queries
- Working with relationships

6.6 Conditions & Control Flow

- Condition
- Switch
- Apply to Each
- Do Until
- Scope
- Terminate
- Parallel branches

6.7 Data Operations

- Compose
- Join
- Select
- Filter Array
- Create CSV
- Create HTML

6.8 Expressions & JSON

- Expression functions
- String functions
- Date functions
- Array functions
- Objects
- Arrays
- JSON structure
- Parse JSON

6.9 Approvals

- Single approval
- Sequential approval
- Parallel approval
- Multi-level approval
- Reassignment
- Approval responses
- Teams approvals

6.10 Error & Exception Handling

- Scope
- Configure Run After
- Retry policies
- Failure notifications
- Error handling patterns
- Troubleshooting

6.11 Performance Optimization

- Concurrency

- Degree of parallelism
- Pagination
- Large datasets
- Retry policies
- Flow optimization

6.12 Advanced Power Automate

- Parent/Child flows
- Flow settings
- Action settings
- Run history
- Flow ownership
- Sharing
- Mobile

6.13 Power Apps + Power Automate

- Trigger flow from Canvas App
- Pass parameters
- Return values
- Dataverse integration
- App-driven automation

6.14 Business Automation Scenarios

- Leave approval
- Expense approval
- Employee onboarding
- Document approval
- Email automation
- Teams notification
- SharePoint automation
- SQL Server automation

MODULE 7 – ADVANCED INTEGRATION & APIs

7.1 OData

- OData concepts
- \$filter
- \$select
- \$expand
- Dataverse OData queries

7.2 FetchXML

- FetchXML introduction
- Queries
- Filters
- Dataverse data retrieval

7.3 HTTP & REST APIs

- REST fundamentals
- GET
- POST
- PATCH
- DELETE
- HTTP action
- Authentication concepts
- API integration

7.4 Custom Connectors

- Custom connector architecture
- API definition
- Authentication

- Creating a connector
- Using custom connectors

7.5 On-Premises Data Gateway

- Gateway architecture
- Installation overview
- SQL Server connectivity
- On-premises integration

7.6 Adaptive Cards

- Adaptive Cards
- Teams integration
- Dynamic data
- Interactive cards
- Approval scenarios

MODULE 8 — ALM, SECURITY & GOVERNANCE

8.1 Environment Strategy

- Development
- Testing
- Production
- Environment planning
- Environment strategy

8.2 Solutions

- Unmanaged solutions
- Managed solutions
- Solution components
- Solution-aware Apps
- Solution-aware Flows

8.3 Environment Variables

- Environment variables
- Configuration management
- Deployment considerations

8.4 Connection References

- Connection references
- Connections vs connection references
- Deployment considerations

8.5 Application Lifecycle Management

- Dev → Test → Production
- Export
- Import
- Versioning
- Deployment pipelines

8.6 Security

- Security roles
- Users
- Teams
- Ownership
- Sharing
- Security groups
- Access control

8.7 Governance

- DLP policies
- Governance fundamentals

- Admin Center
- Environment governance
- Connector governance

8.8 Monitoring & Troubleshooting

- Power Apps Monitor
- Flow run history
- Error analysis
- Performance monitoring
- Troubleshooting methodology

MODULE 9 – AI BUILDER & COPILOT STUDIO

9.1 AI Builder

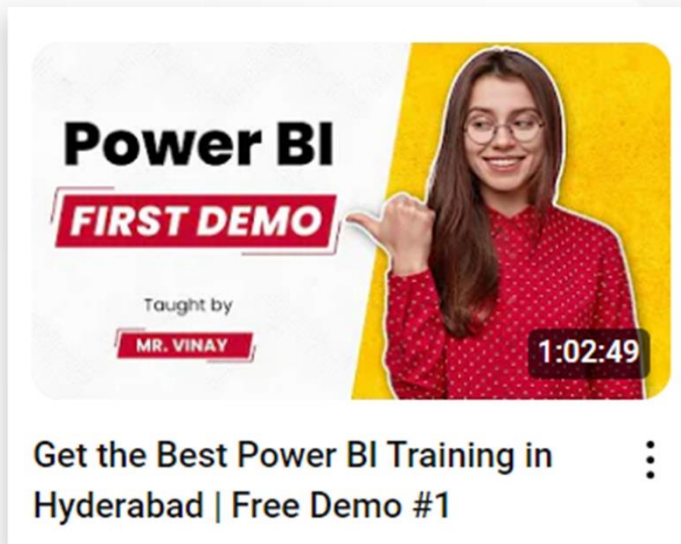
- Introduction to AI Builder
- AI capabilities
- Prebuilt AI models
- Document processing
- Form processing
- Information extraction
- AI Builder + Power Apps
- AI Builder + Power Automate

9.2 Copilot Studio

- Introduction to Copilot Studio
- Create an Agent
- Topics
- Trigger phrases
- Messages
- Questions
- Conditions
- Branching
- Variables
- Generative answers
- Knowledge sources
- Power Automate integration
- Publishing
- Analytics
- Human escalation

MODULE 10 – END-TO-END CAPSTONE PROJECT

A Big Thank you



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COURSES WE OFFER

POWER BI

DATA ANALYST/ ANALYTICS

MICROSOFT FABRIC

SQL SERVER

ADE / AZURE BI

ADF: AZURE DATA FACTORY

ADB: AZURE DATA BRICKS

MSBI

POWER APPS

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