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Learning Style: Virtual Classroom

Technology: Microsoft

Difficulty: Advanced

Course Duration: 4 Days

Power Platform Solution Architect (PL-600T00)

About this Course:

The Solution Architect is responsible for the successful design, implementation, deployment and adoption of an overall solution. The Solution Architect ensures that the solution meets the customerâ€™s needs now and in the future. In this course, students will learn about decisions a Solution Architect makes during an implementation, covering security, integrations, Power Apps architecture, Power Automate architecture, and more. This course is designed to give you an introduction to the Solution Architect role.

Course Objectives:

- Define the role and responsibilities of a Solution Architect within Power Platform projects.
- Lead and execute requirement gathering and fit-gap analysis to align business needs with solution design.
- Understand and apply the pillars of good architecture to create a scalable and maintainable solution blueprint.
- Navigate project governance effectively, employing strategies to maintain project focus and mitigate risks.
- Comprehend Power Platform components and limitations to construct architectures that leverage platform strengths.
- Develop a data model strategy, dealing with data types and relationships for efficient and structured storage.
- Integrate analytics and artificial intelligence to provide operational reporting, Power BI insights, and custom AI solutions.
- Architect Power Apps solutions, including app composition, component usage, and portal integration.
- Apply Application Lifecycle Management (ALM) principles to manage the solution from development to deployment.
- Design comprehensive security models, manage access control, and ensure data protection within the Power Platform ecosystem.

Audience:

- Senior Consultants (both functional and technical) that aspire to be Solution Architects, or current Solution Architects that are new to the role.

Prerequisites:

- Fundamental understanding of Microsoft Power Platform: Familiarity with the core components of the Power Platform, including Power Apps, Power Automate, Power BI, and Power Virtual Agents.
- Experience with Microsoft Dynamics 365 applications: Basic knowledge of Dynamics 365 applications and how they integrate with the Power Platform is beneficial.
- Conceptual knowledge of solution architecture: An understanding of general principles related to solution architecture design, such as scalability, security, and compliance.
- Basic data modeling skills: Awareness of data modeling concepts and experience with defining and configuring tables, columns, and relationships in Microsoft Dataverse or similar data management platforms.
- Understanding of cloud computing: Familiarity with cloud computing concepts and SaaS (Software as a Service) solutions, particularly within the context of Microsoft Azure.
- Awareness of software development lifecycle (SDLC): Knowledge of SDLC processes, including requirements gathering, testing, deployment, and application lifecycle management (ALM).

These prerequisites help ensure that students have the foundational knowledge required to grasp the more advanced topics covered in the course. However, a strong willingness to learn and a commitment to engaging with the course materials can also help compensate for gaps in experience.

Course Outline:

Module 1: Becoming a Solution Architect/Getting to know your customer

Lessons

- Define a Solution Architect
- Role of a Solution Architect on projects
- Project Methodology
- Getting to know your customer
- Group exercise - Getting to know your customer

Module 2: Conceptualizing the design from requirements

Lessons

- How to lead the requirement collection effort
- Using fit gap analysis
- Pillars of good architecture
- Blueprinting the solution architecture
- Group exercise - Design from requirements

Module 3: Project governance and working as a team

Lessons

- Solution Architect's role in project governance
- Techniques for keeping a project on track
- Scenarios that could cause a project to fail
- Group exercise - Project governance and working as a team

Module 4: Power Platform Architecture

Lessons

- Key Power Platform architecture components
- Understand how platform design and limits influence solution architectures
- Updates and feature releases
- Understand how to communicate how the platform meets customer needs

Module 5: Data Modeling

Lessons

- Data model influences
- Data model strategy
- Data types
- Data relationships
- Group exercise - Data modeling

Module 6: Analytics and artificial intelligence

Lessons

- Planning and evaluating requirements
- Operational reporting
- Power BI
- Enterprise BI
- Pre-built insights and custom AI

Module 7: Power Apps Architecture

Lessons

- Discuss options for apps and how to choose where to start
- Discuss app composition options
- Using components as part of your app architecture
- Considerations for including Portals as an app in your architecture
- Group exercise - Power Apps Architecture topics

Module 8: Application Lifecycle Management (ALM)

Lessons

- Microsoft vision and Solution Architect's role in ALM
- Environment strategies
- Defning a solution structure for your deliverable

Lab : ALM Hands-on Lab

Module 9: Power Automate Architecture

Lessons

- Discuss options for automation and custom logic
- Review considerations for using triggers and common actions
- Explore using Business Process Flows (BPF) to guide users through business processes
- Group Exercise - Evaluate scenarios for Power Automate usage

Module 10: Security Modeling

Lessons

- Solution Architect's role in security modeling
- Discovery and learning your client's environment
- Controlling access to environments and resources
- Controlling access to CDS Data
- Group Exercise - Security Modeling

Module 11: Integration

Lessons

- Solution Architects role in Integrations
- What is an integration and why do we need it
- Platform features that enable integration
- CDS Event Publishing
- Scenarios for group discussion

Module 12: Dynamics 365 Applications Architecture

Lessons

- Solution Architect's role when deploying Dynamics 365 apps
- Architecture Considerations for primary apps
- Group Exercise - App specific working groups evaluate requirements

Module 13: Power Virtual Agents architecture

Lessons

- Introduction
- Chatbot options
- Chatbot concepts
- Best practices
- Integrate chatbots
- Power Virtual Agents in Microsoft Teams

Module 14: Robotic Process Automation

Lessons

- Introduction
- Power Automate Desktop
- Recording and editing tasks
- Running desktop flows
- Process advisor

Module 15: Testing and Go Live

Lessons

- Solution Architect's role with testing and go live
- Planning for testing
- Planning for go live

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