Becoming an SAP BTP Solution Architect

Course Description:
This learning journey empowers individuals to develop the necessary technical skills and knowledge to design intelligent enterprise solutions using SAP Business Technology Platform (BTP). It covers critical SAP BTP solution areas including Application Development, Automation, Integration, Data and Analytics, and AI, along with key architectural methodologies such as SAP Data and Analytics Advisory Methodology, SAP Integration Solution Advisory Methodology, and Cost Estimation. Upon completing the course, learners will be equipped to align IT strategies with business objectives using SAP BTP tools and technologies, as well as estimate the costs of use-cases.

Audience Profile:
This course is designed for individuals in the role of a solution architect who want to enhance their understanding of SAP BTP. It is also suited for professionals seeking to align IT solutions with business needs and estimate project costs using SAP BTP tools and methodologies.

Prerequisite:

- Completion of the "Discovering SAP Business Technology Platform" course
- Practical experience with SAP BTP

Course Objectives:

- Gain a comprehensive understanding of SAP BTP tools and methods for designing enterprise architecture.
- Learn how to utilize SAP BTP for aligning IT strategies with business objectives.
- Develop the skills to estimate the costs of use-cases effectively.
- Acquire an in-depth knowledge of SAP BTP solution areas and key architectural methodologies.

Table of Contents (TOC):

- Exploring SAP BTP Guidance Framework
- Exploring SAP Discovery Center
- Exploring SAP Business Accelerator Hub
- Exploring SAP BTP Reference Architectures
- Exploring SAP BTP Solution Diagrams
- Exploring Data Privacy, Certifications and Attestations within SAP Trust Center
- Understanding what SAP BTP is and how it works
- Summarizing the account model concept used by SAP BTP
- Explaining the Responsibilities of SAP BTP Customers
- Setting up your Account Model
- Understanding Identity and Access Management
- Summarizing SAP Cloud Identity Services
- Summarizing the security concept for applications on SAP BTP
- Summarizing SAP BTP Connectivity

Module 3: Performing Application Development

- Exploring the various extension options for SAP S/4HANA
- Exploring platforms for software development and the clean core concept
- Explaining the different types of user interface technologies and application frameworks
- Explaining the tools and methods for developing mobile applications on SAP BTP
- Describing the different types of extensions for SAP S/4HANA
- Describing the benefits of side-by-side extensibility
- Describing the phases of SAP Application Extension Methodology
- Evaluating and selecting appropriate extension technologies
- Using SAP Application Extension Methodology

Module 4: Exploring Data and Analytics

- Describing different SAP BTP solutions for data and analytics
- Exploring SAP Datasphere, SAP Analytics Cloud, and Data Fabric
- Describing the phases of SAP Data and Analytics Advisory Methodology
- Diving deep into the phases of SAP Data and Analytics Advisory Methodology

- Using SAP Data and Analytics Advisory Methodology

Module 5: Exploring Integration

- Explaining SAP's integration strategy
- Explaining SAP's digital architecture and event-driven architecture
- Explaining the capabilities of the SAP Integration Suite
- Explaining the role of API Management and Open Connectors
- Describing SAP Integration Solution Advisory Methodology
- Examining the templates used in SAP Integration Solution Advisory Methodology
- Using SAP Integration Solution Advisory Methodology
- Describing the methods used for evaluating the existing integration strategy
- Defining integration domains and styles
- Designing a hybrid integration platform that connects on-premise and cloud systems
- Implementing technology mapping for hybrid integration platforms
- Defining and implementing integration best practices
- Creating architecture blueprints and tailored development guidelines
- Promoting a culture of ownership and engagement within the organization
- Describing integration governance and quality assurance

Module 6: Exploring Automation

- Describing SAP Build Process Automation
- Exploring SAP Build Catalog and SAP Build reference architectures
- Describing how intelligent enterprises benefit from enterprise automation
- Describing SAP Signavio

Module 7: Exploring AI

- Understanding the fundamentals of AI with SAP
- Explaining Joule
- Explaining Joule usage patterns
- Exploring how AI in SAP BTP Areas
- Exploring AI in Application Development Area
- Exploring AI in Automation Area

- Exploring AI in Integration Area
- Exploring AI in Data and Analytics Area
- Exploring fundamental aspects of SAP AI and SAP BTP
- Exploring generative AI in SAP AI Core and SAP AI Launchpad
- Understanding the concept of the RAG architecture and its role in improving the performance of Large Language Models (LLMs) in Natural Language Processing (NLP) tasks
- Understanding the AI features and automation provided by GenAI Mail Insights within SAP BTP

Module 8: Exploring Costs and Commercial Models

- Evaluating the appropriate SAP BTP commercial model for a given use case
- Exploring the business scenario
- Calculating the costs for a use case