Lesson Plan

Creating a lesson plan for training Solution Architects using **TOGAF (The Open Group Architecture Framework)** standards involves introducing learners to the essential principles, methods, and deliverables within the framework. Here's a comprehensive lesson plan designed to cover the core concepts and skills a Solution Architect needs, structured around TOGAF.

Lesson Plan for Solution Architects Using TOGAF Standards

Course Title:

Solution Architecture Using TOGAF

Target Audience:

- Aspiring Solution Architects
- Experienced IT professionals looking to specialize in architecture
- Enterprise Architects who want to deepen their knowledge in Solution Architecture

Course Duration:

- 5 days (30-40 hours)
  Can be adapted to a part-time structure over several weeks.

Day 1: Introduction to TOGAF and the Solution Architect Role

1. **Learning Objectives:**
   - Understand TOGAF and its value.
   - Understand the role of a Solution Architect within the framework.
2. **Topics Covered:**
   - **Introduction to TOGAF 9.2:** Overview of TOGAF, key principles, and its components.
   - **Solution Architecture Overview:** Role, responsibilities, and skills of a Solution Architect.

- **Architecture Development Method (ADM):** Introduction to TOGAF's ADM phases and how they guide the development of architectures.
3. **Activities:**
   - Group discussion: The role of Solution Architecture in digital transformation.
   - Case study: Review of a basic solution architecture framework.

Day 2: Architecture Development Method (ADM) and TOGAF Components

1. **Learning Objectives:**
   - Understand the ADM phases and how they apply to Solution Architecture.
   - Know the core TOGAF artifacts and their use in Solution Architecture.
2. **Topics Covered:**
   - **ADM in Detail:**
     - **Preliminary Phase:** Setting the architecture framework.
     - **Phase A (Architecture Vision):** Establishing scope and high-level objectives.
     - **Phase B (Business Architecture):** Aligning business goals and strategy.
     - **Phase C (Information Systems Architectures – Data and Application):** Creating a solution based on data and application architecture.
   - **Core TOGAF Deliverables and Artifacts:**
     - Architecture Vision, Architecture Definition, and Architecture Contract.
     - Building Block concepts (ABB, SBB).
3. **Activities:**
   - Hands-on exercise: Create a high-level architecture vision document.
   - Case study analysis: Walk through a sample ADM process.

Day 3: Architecture Domains and Building Blocks

1. **Learning Objectives:**
   - Gain detailed understanding of the architecture domains.
   - Learn to develop and utilize architecture building blocks (ABBs and SBBs).
2. **Topics Covered:**
   - **Data and Application Architectures:**
     - Data modeling, data flows, and governance.

- Application architecture: defining application components and their interactions.
  - **Technology Architecture (Phase D):**
    - Mapping solution to infrastructure: platforms, security, and operational layers.
  - **Architecture Building Blocks (ABB):** Key solution elements used across phases.
  - **Solution Building Blocks (SBB):** Actual components used in building systems.
3. **Activities:**
  - Group exercise: Develop ABBs and SBBs for a specific solution scenario.
  - Use case review: Analyze the architecture domains for an enterprise solution.

Day 4: TOGAF Artifacts and Governance

1. **Learning Objectives:**
  - Learn about TOGAF artifacts and their role in delivering solutions.
  - Understand architecture governance and how it supports project success.
2. **Topics Covered:**
  - **Artifacts for Solution Architecture:**
    - Architecture Principles, Models, and Roadmaps.
    - Architecture Repository and Enterprise Continuum.
  - **Governance and Compliance:**
    - Architecture Governance Framework.
    - Risk management and architecture maturity.
    - Architecture contracts and capability assessments.
3. **Activities:**
  - Create an architecture roadmap based on a business scenario.
  - Interactive discussion: Applying governance in a real-world solution.

Day 5: Practical Application and Case Study

1. **Learning Objectives:**
  - Apply TOGAF principles to real-world solution scenarios.
  - Learn best practices and troubleshooting for solution architecture.
2. **Topics Covered:**
  - **Practical Solutions Architecture:**
    - Identifying business needs and technical requirements.
    - Managing stakeholder expectations.
    - Evaluating the solution for performance, scalability, and security.

- **Finalizing ADM Cycle:**
  - Phase E (Opportunities and Solutions), Phase F (Migration Planning).
  - Phase G (Implementation Governance), Phase H (Architecture Change Management).
- **Case Study:**
  - Analyze and architect a solution based on a detailed business case.
  - Present a solution architecture and governance plan.
3. **Activities:**
   - Case study project: Develop a full solution architecture for an enterprise problem.
   - Group presentations: Present the solution and review feedback.

Materials Needed:

- TOGAF Reference Guides (TOGAF 9.2 Standard).
- Case studies and examples.
- Whiteboard, flip charts, and post-it notes for brainstorming and planning exercises.
- Access to architecture modeling tools (e.g., ArchiMate, Visio).

Assessment:

- **Participation:** 10% – Group discussions, participation in hands-on exercises.
- **Case Study Assignment:** 40% – Develop a detailed solution architecture plan.
- **Final Project Presentation:** 50% – Present a comprehensive solution architecture with governance.

Certification Path:

After completing this lesson plan, participants can opt for the **TOGAF 9.2 Certification** exam to validate their knowledge in TOGAF principles and methods.

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