



Software Analysis & Development Complete Training Course

25 - 29 May 2026
Nairobi

Software Analysis & Development Complete Training Course

Ref.: 103600306_32335 **Date:** 25 - 29 May 2026 **Location:** Nairobi **Fees:** 4500 **Euro**

Course Overview:

In today's rapidly evolving software industry, mastering Software Analysis & Development is critical for delivering high-quality, efficient, and scalable systems. Comprehensive Training in Software Analysis & Development: SDLC, UI/UX, & Data Modeling is designed to equip professionals with the knowledge and skills required to navigate the complexities of System Analysis, UI/UX Development, Software Architecture, Agile Development, and Data Modeling.

This intensive course covers essential aspects of software requirement gathering techniques, Entity Relationship Diagrams ERD, structured programming vs. object-oriented approaches, functional and non-functional requirements, business process modeling, and system documentation techniques. Participants will gain hands-on experience in creating workflow diagrams, designing database schemas, performing risk assessments, and understanding the impact of digital transformation on modern software systems.

By the end of this training, learners will be able to apply best practices in software development, develop software prototypes, analyze system requirements, and implement industry-standard methodologies in real-world projects. This course ensures professionals are prepared to tackle complex projects while aligning with business analysis, IT project management, and system optimization best practices.

Target Audience:

- Software Developers & Engineers
- System Analysts & Business Analysts
- IT Project Managers
- UI/UX Designers
- Database Administrators
- Enterprise Architects
- QA Engineers & Software Testers
- Product Owners & Agile Coache

Targeted Organizational Departments:

- IT & Software Development
- Business Analysis & Process Optimization
- Quality Assurance & Testing
- Product & Project Management

Targeted Industries:

- Technology & Software Development
- Financial Services & Banking
- Healthcare & Pharmaceutical
- E-commerce & Retail
- Government & Defense
- Telecommunications

Course Offerings:

By the end of this course, participants will be able to:

- Analyze functional and non-functional requirements.
- Develop software prototypes and wireframes.
- Implement system architecture design techniques.
- Apply best practices in software engineering.
- Develop Entity Relationship Diagrams ERD for database modeling.
- Optimize software testing and debugging strategies.
- Utilize workflow diagrams for process optimization.
- Conduct IT risk assessments and migration strategies.

Training Methodology:

This course employs an interactive and practical learning approach, ensuring maximum engagement and real-world applicability. Training methodologies include:

- Case Studies Real-world case studies on software failures and successes.
- Hands-on Exercises Developing workflow diagrams, UI/UX prototypes, and ERDs.
- Interactive Discussions Exploring best practices in software architecture.

Course Toolbox:

Participants will have access to:

- Course ebooks & Checklists
- Case Study-Based Learning Materials
- Sample Software Documentation Templates
- Guidelines for UML Diagrams & Wireframing
- Recommended Tools for Software Testing & Debugging

Course Agenda:



Day 1: Introduction to Software Analysis and Development

- **Topic 1:** Overview of Systems Analysis and Development Life Cycle
- **Topic 2:** Role of Systems Analysts and Software Engineers
- **Topic 3:** Understanding Project Selection and Feasibility Analysis
- **Topic 4:** Business Process Management and Automation
- **Topic 5:** Identifying and Gathering Software Requirements
- **Topic 6:** Creating a System Proposal for Stakeholders
- **Reflection & Review:** Evaluating case studies on successful system analysis projects

Day 2: Requirements and Process Modeling

- **Topic 1:** Use Case Analysis and Functional Requirements Development
- **Topic 2:** Data Flow Diagrams and Process Modeling Techniques
- **Topic 3:** Entity Relationship Diagrams and Data Modeling Best Practices
- **Topic 4:** Developing Data Dictionaries and Metadata for Systems
- **Topic 5:** Business Process Improvement and Reengineering Techniques
- **Topic 6:** Analyzing and Validating Requirements for System Design
- **Reflection & Review:** Hands-on practice with modeling methods and review of real-world applications

Day 3: Software Architecture and User Interface Design

- **Topic 1:** System Architecture Design and Client-Server Models
- **Topic 2:** User Interface Design Principles and Usability Testing
- **Topic 3:** Navigation and Layout Best Practices in UI/UX Design
- **Topic 4:** Wireframing and Prototyping Software Applications
- **Topic 5:** Ensuring Accessibility and Compliance in UI Development
- **Topic 6:** Human-Computer Interaction and User Experience Research
- **Reflection & Review:** Evaluating user interface designs through usability testing

Day 4: Database, Program, and Data Storage Design

- **Topic 1:** Transitioning from Logical to Physical Database Design
- **Topic 2:** SQL and Database Normalization Techniques
- **Topic 3:** Object-Oriented Design and UML Diagrams in Development
- **Topic 4:** Program Structure Charts and Code Optimization Strategies
- **Topic 5:** Data Security, Privacy, and Compliance in Software Systems
- **Topic 6:** Testing and Debugging Software Applications
- **Reflection & Review:** Group discussion on database design best practices



Day 5: Implementation, Maintenance, and Case Study Analysis

- **Topic 1:** Software Development Methodologies Agile, Waterfall, DevOps
- **Topic 2:** Transition to the New System and Change Management
- **Topic 3:** System Deployment Strategies and Migration Techniques
- **Topic 4:** Post-Implementation System Support and Maintenance
- **Topic 5:** Evaluating Project Success and Lessons Learned
- **Topic 6:** Final Case Study Analysis and Project Presentation
- **Reflection & Review:** Course wrap-up, key takeaways, and Q&A session

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

No specific prerequisites are required. However, a basic understanding of IT, programming fundamentals, or system analysis is recommended.

How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session lasts 4-5 hours, totaling approximately 20-25 hours of instruction over five days.

What is the importance of Entity Relationship Diagrams ERD in system development?

ERDs help visualize database structures, ensuring efficient data storage, reducing redundancy, and optimizing database performance.

How This Course is Different from Other Software Analysis Courses:

This course stands out by combining theoretical and practical applications of software analysis, UI/UX design, data modeling, and system development life cycles SDLC. Unlike traditional courses that focus on only one area, this program integrates Agile methodologies, best practices in software engineering, and real-world system case studies to provide a holistic learning experience.



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WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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