



S/4HANA Academy

Course Handbook

UKISUG Academy

Purpose, Vision, Mission & Value

Driving success for the SAP Community

Purpose

To develop the next generation of talent by enabling effective knowledge and skills transfer within the SAP community.

Vision

Our vision is to address the skills gap through accessible, high-quality education and training.

Mission

To support the UK & Ireland SAP User Group community in upskilling, reskilling and nurturing future SAP professionals.

Value

Our value is to:

- Provide UKISUG members with a one stop shop to upskill and reskill, gaining SAP and industry certification, knowledge and expertise.
- Address the current SAP skills shortage in the marketplace for both SAP business and technical consultants.
- Gain CDP Points.

Aim

UKISUG aims to offer its members a central hub for upskilling and reskilling, with access to SAP and industry-recognised certifications. Helping to bridge the SAP skills shortage across both business and technical roles, providing opportunities to earn CPD credits.



Overview of S/4HANA Academy

The S/4HANA Academy aims to identify the user learning journeys, associated content, delivery methods and durations, with a view to:

1. **Align the training material:** Current training resources are often siloed and fragmented. The Academy works to coordinate and align content based on specific SAP customer needs, ensuring a more unified learning experience.
 2. **Fill in the gap in the existing content:** Research and a systematic literature review have highlighted missing content for certain topics and customer persona. The Academy aims to fill these gaps to provide comprehensive coverage.
 3. **Offer in-depth and hands-on learning experiences:** Most existing training is delivered at a conceptual level using PowerPoint and video formats. The Academy enhances this by offering practical, in-depth case studies that address real-world customer challenges.
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Course Structure & Delivery

Teaching will mainly be delivered live and in person, with recorded materials available online where applicable. Each course is made up of modules and every module includes a structured learning session consisting of:

- Pre-lecture learning activity (student managed/self-directed or lecturer-directed learning).
- Lecture materials and activities covering subject specialities including individual or group activities.
- Support material on the module topic area such as case studies, videos or industry based white papers and industry literature.
- Students can access the course and module material and learning sessions through the dedicated UKISUG Academy Virtual Learning Environment (VLE) platform.



S/4HANA Academy

Module Definitions

The S/4HANA academy course has 6 modules, each module description is provided as part of this document.

Module 1: S/4HANA Overview

Module 2: Aligning S/4HANA Related Components into a Framework

Module 3: Business Process Customisation

Module 4: Network & Security

Module 5: Application Development

Module 6: Analytics and Data Management



S/4HANA Academy

Learning Journey Personas

This diagram outlines the learning journeys of the personas studying the S/4 HANA course:

Personas	M1: S/4 HANA OVERVIEW	M2: ALIGNING S/4HANA RELATED COMPONENTS INTO A FRAMEWORK	M3: BUSINESS PROCESS CUSTOMISATION	M4: NETWORK & SECURITY	M5: APPLICATION DEVELOPMENT	M6: ANALYTICS AND DATA MANAGEMENT
Learning Pathway 1: Business Users*	●	●	●			
Learning Pathway 2: Enterprise Architect	●	●				
Learning Pathway 3: Network Engineer	●			●		
Learning Pathway 4: Security Engineer	●			●		
Learning Pathway 5: Basis	●			●	●	●
Learning Pathway 6: Developer	●			●	●	●
Learning Pathway 7: Data Analyst	●					●

***Business Users includes:** Project Manager/Programme Lead, Business Analysts, Strategy Lead, IT Relationship Manager/IT Business Partner, Heads of SAP/Departments, CIO/CTO



S/4HANA Academy

Suitability

Scenarios

Scenario 1: Companies at the start of their S/4 HANA implementation journey

The academy modules are designed to consider companies that are at the start of their journey, providing practical examples, techniques and approaches to S/4 HANA implementation.

Scenario 2: Companies that have implemented S/4 HANA

The academy modules material provides real-industry scenarios and case studies of companies who have implemented S/4 HANA, looking at challenges and best practices and lessons learned from both a customer and partner viewpoint, describing the what, why and the how for each scenario that needs to be considered, providing skills on how to further optimise and innovate using existing and upcoming capabilities.

Note: The upskilling and reskilling is provided for both scenarios through the following techniques, but not limited to:

1. Sharing industry best practices, case studies, examples from customer and partner viewpoints gathered from knowledge and expertise within the UKISUG community.
 2. Systems demonstration of the various scenarios and case studies, providing hand on exercises where applicable.
 3. Discussion and activities as part of each module.
 4. Access to all UKISUG community materials provided to date on S/4 HANA through the VLE (Virtual Learning Environment) module, this includes a series of videos, case studies, articles and presentations.
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Differentiator and Uniqueness of the S/4 HANA Academy:

The differentiator of the UKISUG academy compared to current learning platforms is as follows:

1. Materials are based on real industry scenarios and best practice delivered by experienced instructors that have implemented S/4 HANA solutions for many years and independent of SAP.
2. Materials delivered highlight differences between what is said in theory and what should be implemented and considered in practice.



Module 1:

S/4HANA Overview

Module title	Overview
Delivery	Duration: 1 Day - Face to Face Self-Study: 28 Hours
Suitable for	Project Manager/ Programme Lead, Business Analysts, Strategy Lead, IT Relationship Manager/ IT Business Partner, Heads of SAP / Dept, CIO/CTO, Enterprise & Solution Architects including Data and Application Architecture, Network Specialist, Security Engineer, Basis Consultant/ User, Technical User, Developers, ABAP Consultants, Data Management and Analytics
Level	CPD
Credit rating	Certificate of Professional Development
Brief content	Provides an overview of S/4HANA implementations based on various scenarios
Aims	<p>This module aims to provide an overview of S/4HANA business and technical implementations based on various scenarios:</p> <ul style="list-style-type: none"> ▪ Introducing the best practices, industry standards for system readiness, minimising of code and standardisation ▪ Providing overview of transformation methods and techniques for engineering system landscape based on As-Is and To-Be scenarios for S/4HANA implementation. ▪ Introducing business change management for S/4HANA implementation, its impact on the end-user and transition from technical to business and its alignments
Rationale	The module is designed to provide knowledge and skills on S/4HANA implementation, addressing the current skills gap for UKISUG members
Learning outcomes	<p>On completion of the module, the student should be able to:</p> <ol style="list-style-type: none"> 1. Understand the various S/4HANA implementation scenarios including best practices, standardisation, system readiness and code minimisation 2. Understand and discuss the methods and techniques for the transformation to S/4HANA 3. Identify and discuss business change management implications to the organisation and understand its impact on end-users and the translation of processes from technical to business
Learning and Teaching Strategy	The module will be taught using a combination of lectures, tutorial sessions, case studies and practical sessions.



Module description	<p>Part 1 - S/4HANA Overview:</p> <p>Understanding various scenarios Understanding the various S/4HANA development and implementation scenarios, such as new implementation, conversion and a hybrid approach to S/4HANA</p> <p>Standardisation Introducing the standardisation of technical code based on the business processes, looking at methods and techniques of best practices for standardisation. This will also take into consideration the S/4HANA on-premise and cloud private edition implementations and its differences.</p> <p>Minimisation of Code Changes Introducing methods and techniques to minimise code change when going through transformation and transition into an S/4HANA implementation.</p> <p>System Readiness Introduces best practices on organisation data cleansing and maintenance based on different types of implementations to enable data transition and transformation. Depending on what S/4 version you are moving to, they will have suitable version/patching requirements. These need to be considered to ensure you have a path forward for your upgrade.</p> <p>Licencing Overview Provide an overview of licence options based on the various S/4HANA implementation scenarios.</p> <p>Part 2 – Transformation Overview</p> <p>As-Is and To-Be changes and impact The content will focus on providing knowledge and skills to transform business processes and technical systems from the current status (As-Is) to the future status (To-Be) and the required changes and its impact on the business.</p> <p>Systems Engineering of the Landscape The content will provide knowledge and skills on engineering architecture landscape for the organisation systems based on chosen scenario, considering the technical and business architecture landscape options and capabilities. This will also take into consideration the S/4HANA on-premise and cloud private edition implementations and its differences.</p> <p>Part 3 – Business Change Management</p> <p>Understanding impact on end-users The content will provide knowledge and skills on understanding and minimising the impact of S/4HANA implementation on the business departments' end-users, for example the finance department or HR as part of the overall business change management, including business process changes that impact end-user's functional activities within the individual departments.</p> <p>Translation process from technical to business The content will provide knowledge and skills on translation of technical and business processes from existing ERP system to S/4HANA based on various implementation scenarios. This will also take into consideration the S/4HANA on-premise and cloud private edition processes and their differences.</p>
Learning Resources	<p>Reading List Material is made available over the VLE from UKISUG and SAP</p> <p>Additional & Self Study Reading List User Group existing documents, case studies, presentations and webinars</p> <p>Software & Hardware Resources Not Required</p> <p>IT Resources Access to UKISUG Academy VLE Access to Zoom or Microsoft Teams</p>



Module 2:

Aligning S/4HANA related components into a framework

Module title	Aligning S/4HANA related components into a framework
Delivery	Duration: 2 Days - Face to Face Self-Study: 42 Hours
Suitable for	Project Manager / Programme Lead, Business Analysts, Strategy Lead, IT Relationship Manager / IT Business Partner, Heads of SAP / Dept, CIO/CTO, Enterprise & Solution Architects including Data and Application Architecture
Level	CPD
Credit rating	Certificate of Professional Development
Brief content	Provides knowledge and skills on design and development of database architecture, application architecture and solution monitoring for S/4HANA implementation.
Aims	<p>This module aims to enhance knowledge and skills on design and development of database architecture, application architecture and solution monitoring for different S/4HANA implementations, considering different types of Cloud offerings including the SAP Cloud Service Models of:</p> <ul style="list-style-type: none"> ▪ IaaS (infrastructure-as-a-service) ▪ PaaS (platform-as-a-service) ▪ SaaS (software-as-a-service)
Rationale	The module is designed to provide knowledge and skills on solution architecture for S/4HANA implementations based on various scenarios, addressing the current skills gap for UKISUG members
Learning outcomes	<p>On completion of the module, the student should be able to:</p> <ol style="list-style-type: none"> 1. Identify and apply the database architecture for various scenarios of S/4HANA implementation 2. Identify and apply the application architecture for various scenarios of S/4HANA implementation 3. Identify and apply the solution monitoring approaches and methods for various scenarios of S/4HANA implementation
Learning and Teaching Strategy	The module will be taught using a combination of lectures, tutorial sessions, case studies and practical sessions.



Module description	<div> Part 1 - Enterprise and Business Architecture Design <ul style="list-style-type: none"> ▪ On-premise vs Cloud ▪ HANA Databases - HANA vs ECC ▪ Database Optimisation ▪ Linux vs Windows </div> <div> Part 2 - Business Capabilities and Process Analysis <ul style="list-style-type: none"> ▪ Technical Application Landscape Architecture ▪ Systems Integration ▪ Embedded vs Separate </div> <div> Part 3 - Enterprise Architecture <ul style="list-style-type: none"> ▪ Monitoring Overview ▪ Hardware Monitoring ▪ Database Monitoring ▪ Application Monitoring </div>
Learning Resources	<p>Reading List Material is made available over the VLE from UKISUG and SAP</p> <p>Additional & Self Study Reading List User Group existing documents, case studies, presentations and webinars</p> <p>Software & Hardware Resources Not Required</p> <p>IT Resources Access to UKISUG Academy VLE Access to Zoom or Microsoft Teams</p>



Module 3:

Business Process Customisation

Module title	Business Process Customisation
Delivery	Duration: 1 Day - Face to Face Self-Study: 28 Hours
Suitable for	Project Manager / Programme Lead, Strategy Lead, Business Analyst, IT Relationship Manager / IT Business Partner, Heads of SAP / Dept, Business User, CIO/CTO
Level	CPD
Credit rating	Certificate of Professional Development
Brief content	Provides knowledge and skills on customisation challenges for S/4HANA implementation.
Aims	The module aims to provide knowledge and skills on customisation challenges for S/4HANA implementation based on various scenarios
Rationale	The module is designed to provide knowledge and skills on customisation challenges based on various S/4HANA scenarios of new, conversion or upgrade across the on-premise or cloud implementation, discussing the lessons learned using practical and industry based examples, addressing the current skills gap for UKISUG members.
Learning outcomes	On completion of the module, the student should be able to: <ol style="list-style-type: none"> 1. Understand and identify the customisation challenges for S/4HANA implementation based on various scenarios and real customer case studies 2. Provide knowledge transfer on customisation challenges
Learning and Teaching Strategy	The module will be taught using a combination of lectures, tutorial sessions, case studies and practical sessions.



Module description	Part 1 - Customisation Challenges <ul style="list-style-type: none">Customisation challenges for S/4HANA implementation based on various scenarios and real customer case studies.
Learning Resources	Reading List <p>Material is made available over the VLE from UKISUG and SAP</p> Additional & Self Study Reading List <p>User Group existing documents, case studies, presentations and webinars</p> Software & Hardware Resources <p>Not Required</p> IT Resources <p>Access to UKISUG Academy VLE Access to Zoom or Microsoft Teams</p>



Module 4:

Networks & Security

Module title	Network & Security
Delivery	Duration: 2 Days - Face to Face Self-Study: 42 Hours
Suitable for	Network Specialist, Security Engineer, Basis Consultant/ User, Technical User, Developers
Level	CPD
Credit rating	Certificate of Professional Development
Brief content	Provides knowledge and skills on network and security configuration for S/4HANA implementation for cloud and on-premise.
Aims	The module aims to provide knowledge and skills on network and security configuration for S/4HANA implementation.
Rationale	The module is designed to provide knowledge and skills on network and security configuration for S/4HANA implementation, enabling the network engineer and security engineer to configure based on various scenarios of cloud and on-prem.
Learning outcomes	<p>On completion of the module, the student should be able to:</p> <ol style="list-style-type: none"> 1. Identify and understand the network configuration for S/4HANA implementation including hardware and network setup, Network VLANs and Linux Operating Systems migration 2. Identify and understand the security configuration for S/4HANA implementation including firewall configuration, access monitoring, external communication and user authentication
Learning and Teaching Strategy	The module will be taught using a combination of lectures, tutorial sessions, case studies and practical sessions.



Module description	<div data-bbox="467 230 1369 271">Part 1 - Overview</div> <ul data-bbox="467 293 774 456" style="list-style-type: none"> ▪ Overview of Development ▪ Architecture Consideration ▪ Fiori Specific Security ▪ Roles & Responsibilities <div data-bbox="467 479 1369 519">Part 2 - Network Configuration</div> <ul data-bbox="467 542 759 705" style="list-style-type: none"> ▪ Hardware Setup ▪ Network Setup ▪ Network VLANs ▪ Linux Operating Systems <div data-bbox="467 745 1369 786">Part 3 - Security Configuration</div> <ul data-bbox="467 808 754 972" style="list-style-type: none"> ▪ User Authentication ▪ Firewall Configuration ▪ Access Monitoring ▪ External Communication <div data-bbox="467 1012 1369 1052">Part 4 - Cloud vs On-premise</div> <ul data-bbox="467 1075 941 1151" style="list-style-type: none"> ▪ Pros & Cons of Cloud vs On-Prem S/4HANA ▪ Integration: Internal & External
Learning Resources	<div data-bbox="467 1189 1061 1245"> Reading List Material is made available over the VLE from UKISUG and SAP </div> <div data-bbox="467 1263 1176 1319"> Additional & Self Study Reading List User Group existing documents, case studies, presentations and webinars </div> <div data-bbox="467 1337 798 1393"> Software & Hardware Resources Access to S/4 HANA Platform </div> <div data-bbox="467 1411 813 1496"> IT Resources Access to UKISUG Academy VLE Access to Zoom or Microsoft Teams </div>



Module 5:

Application Development

Module title	Application Development
Delivery	Duration: 3 Days - Face to Face Self-Study: 63 Hours
Suitable for	ABAP Consultants, Basis Consultants, Developers, Technical User
Level	CPD
Credit rating	Certificate of Professional Development
Brief content	Provides knowledge and skills on application development for S/4HANA implementation based on various scenarios.
Aims	The module aims to provide knowledge and skills on application development for S/4HANA implementation, considering organisation applications, Fiori development and SAP Business Technology Platform.
Rationale	The module is designed to provide knowledge and skills on application development with the aim to upskill and reskill the technical team of the organisation, addressing the current skills gap for UKISUG members.
Learning outcomes	<p>On completion of the module, the student should be able to:</p> <ol style="list-style-type: none"> 1. Understand and apply skills in application development for S/4HANA implementation including ABAP development, eclipse modelling, functional development and application optimisation. 2. Understand and apply skills in Fiori and UI development for S/4HANA implementation including application configuration and ODATA services. 3. Explore and understand the SAP Business Technical Platform (BTP) as part of the S/4HANA implementation for current and future developments.
Learning and Teaching Strategy	The module will be taught using a combination of lectures, tutorial sessions, case study and practical sessions.



Module description	<div> Part 1 - Overview <ul style="list-style-type: none"> Overview of BTP Overview of Extensibility Options Modern Application Development Artefacts Planning for Adoption Staying up to date, continuous learning </div> <div> Part 2 - Application Development <ul style="list-style-type: none"> ABAP Development Eclipse Development Functional Development Application Development </div> <div> Part 3 - Fiori Development <ul style="list-style-type: none"> Fiori UI Overview Application Configuration ODATA Services </div> <div> Part 4 - Business Technology Platform (BTP) Overview <ul style="list-style-type: none"> Overview of Business Technology Platform </div>
Learning Resources	<p>Reading List Material is made available over the VLE from UKISUG and SAP</p> <p>Additional & Self Study Reading List User Group existing documents, case studies, presentations and webinars</p> <p>Software & Hardware Resources Access to S/4 HANA Platform</p> <p>IT Resources Access to UKISUG Academy VLE Access to Zoom or Microsoft Teams</p>



Module 6:

SAP Analytics & Data Management

Module title	Analytics & Data Management
Delivery	Duration: 2 Days - Face to Face Self-Study: 42 Hours
Suitable for	Technical User, Data Management and Analytics, Developer & Basis
Level	CPD
Credit rating	Certificate of Professional Development
Brief content	Provides knowledge and skills on SAP analytics and data management for S/4HANA based on various scenarios.
Aims	The module aims to provide knowledge and skills on SAP analytics and data management for S/4HANA implementation, considering various scenarios.
Rationale	The module is designed to provide knowledge and skills on SAP analytics and data management for S/4HANA implementation, including consideration related to the Data analytics platform and various scenarios for cloud and on-prem solutions.
Learning outcomes	<p>On completion of the module, the student should be able to:</p> <ol style="list-style-type: none"> 1. Understand and apply skills in database management including table structure and business partner model configuration for the S/4HANA implementation 2. Understand and identify the impact to existing transactions and reports for S/4HANA implementation 3. Understand Embedded Analytics for S/4HANA implementation based on business requirements 4. Create reports and dashboards for S/4HANA implementation based on business needs
Learning and Teaching Strategy	The module will be taught using a combination of lectures, tutorial sessions, case studies and practical sessions.



Module description	<div data-bbox="464 226 1369 271">Part 1 - Data Management</div> <ul data-bbox="464 271 1369 405" style="list-style-type: none"> ▪ Table Structure Changes ▪ Business Partner Model Configuration ▪ Impact on existing transactions and reports <div data-bbox="464 427 1369 472">Part 2 - Analytics</div> <ul data-bbox="464 472 1369 562" style="list-style-type: none"> ▪ Overview of Embedded Analytics ▪ Create Reports and Dashboards
Learning Resources	<div data-bbox="464 584 1369 629">Reading List</div> <p data-bbox="464 629 1369 663">Material is made available over the VLE from UKISUG and SAP</p> <div data-bbox="464 663 1369 707">Additional & Self Study Reading List</div> <p data-bbox="464 707 1369 741">User Group existing documents, case studies, presentations and webinars</p> <div data-bbox="464 741 1369 786">Software & Hardware Resources</div> <p data-bbox="464 786 1369 819">Access to S/4 HANA Platform</p> <div data-bbox="464 819 1369 864">IT Resources</div> <p data-bbox="464 864 1369 898">Access to UKISUG Academy VLE</p> <p data-bbox="464 898 1369 922">Access to Zoom or Microsoft Teams</p>



