Courses Listed

Beginner
- SAPX01 - SAP User Experience Fundamentals and Best Practices
- UX101 - SAP Fiori Cloud Introduction

Intermediate
- UX100 - SAP Fiori - Foundation

Advanced
- GW100 - SAP Gateway – Building OData Services
- UX400 - Developing UIs with SAPUI5
- UX401 - Design-Led Development with SAP BUILD
- UX402 - Advanced SAPUI5 Development
- UX403 - SAP Fiori Elements Development
- UX410 - Developing SAP Fiori UIs
- UX412 - Mobilizing SAP Fiori Standard Apps

Certification Exam
- C_FIORDEV_20 - SAP Certified Development Associate - SAP Fiori Application Developer
All available schedules in your selection

UX412  Mobilizing SAP Fiori Standard Apps

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.

UX401  Design-Led Development with SAP BUILD

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UX101  SAP Fiori Cloud Introduction

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### UX402 Advanced SAPUI5 Development

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### UX400  Developing UIs with SAPUI5

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### SAPX01  SAP User Experience Fundamentals and Best Practices

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### UX410  Developing SAP Fiori UIs

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# COURSE LISTING

## UX100  SAP Fiori - Foundation

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C_FIORDEV_20  SAP Certified Development Associate - SAP Fiori Application Developer (continued)

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.
UX412 - Mobilizing SAP Fiori Standard Apps

Duration
3 days

Course announcements
This course will begin with the simple question: "How do I mobilize a standard SAP Fiori App?" The learner will explore SAP Fiori on mobile as a user requirement and learn the various tools available at SAP for mobilizing standard SAP Fiori applications. Participants will explore the various application types and what each requires by mobile users. There will be discussions and exercises associated with SAP Fiori runtimes, the SAP Fiori Client, and the specific mobile qualities of the SAP Fiori Client. Finally, participants will engage in a business case scenario to perform the hands-on exercises to mobilize an existing SAP Fiori application using SAP Web IDE and the Hybrid Application Toolkit (HAT).

Goals
- This course will prepare you to:
  - Describe the basics of Fiori and SAPUI5
  - Understand Mobilizing Fiori (HAT)
  - Use the HAT plugin
  - Work in the HCP and HCPms environments
  - Enable HAT on Mac for iOS mobile app development
  - Describe Fiori CRM Apps
  - Use the Kapsel Plugins
  - Use the Kapsel Offline Plugins
  - Perform Push Notifications
  - Enable push for iOS Devices
  - Use Fiori Mobile Services

Audience
- Developer
- Developer Consultant
- Solution Architect
- Enterprise Architect
- Technology Consultant

Essential
- SAPX01
- UX009s
- UX100
- UX400
- UX402
- UX410
- UX411s

Course based on software release
- One single VM with below SW installed to enable HCPms development.
  - Node.js 0.12.9
  - JDK 1.8
  - Cordova 5.4.1 (use npm)
  - Git 2.8.1
  - Apache Ant 1.8
  - Android SDK 5.1.1 (API Level 22)
  - HAT Tool
  - SMP3.0 SDK SP11 for Kapsel
Content

- Overview Mobilizing Fiori (HAT)
- Explain the basics of Fiori and SAPUI5
- Describe the steps to Mobilizing Fiori (HAT)
- Use the HAT plugin
- Gain an overview of HCPms
- Enable HAT on Mac
- Overview HCPms and Offline
- Outline the Fiori CRM Apps
- Use Kapsel Plugins
- Use Kapsel Offline Plugins
- Push Notifications
- Use Push Notifications
- Enable push for iOS Devices
- Fiori Mobile Services
- Work in the Fiori Mobile Services environment

Notes

- This course is currently in production and will be released in early Q3/2016.
Goals

- This course will prepare you to:
- Describe the SAP User Experience Strategy
- Explain SAP Fiori's role in the SAP User Experience Strategy
- Define the role of Design Thinking in relation to SAP User Experience
- Explain the importance of context & scoping
- Perform Business Case decisions based on elements of UX contributions to a Business Case
- Describe the differences between Enablement versus Renew in the UX Strategy
- Understand the role of SAP BUILD.ME and its uses
- Describe a typical User Experience journey, such as how to gain information about and from users, how to distill the user information, and how to create a story board based on the gained information
- Create an SAP BUILD LOFI Prototype
- Explore the Fiori Design Principles and Guidelines to create a HIFI prototype by way of cloning and from scratch
- Explain the role of User Experience within SAP Leonardo and the Digital Core
- Describe the differences between SAP BUILD.ME, LEONARDO BUILD and SAP BUILD APPS and the roadmap for future releases
- Explore the importance of data and APIs for Prototyping and running applications and how to work with data in SAP BUILD
- Describe the purpose and use of available tools in BUILD.ME

Audience

- UX Designer
• Developer
• Developer Consultant
• Business Process Architect
• Business Process Owner/Team Lead/Power User
• Solution Architect

Essential
• None

Course based on software release
• SAP Cloud Platform, SAP BUILD 17.08 or greater and SAP Web IDE

Content
• SAP UX Strategy
• Explain the SAP User Experience strategy
• Explain SAP Fiori as part of the SAP User Experience strategy
• Explain Design Thinking in relation to SAP User Experience
• Business Case Decisions
• Explain Digital Business Innovation from a Business Point of view
• Explain Digital Business Innovation from an Information Technology Point of view
• Explain Digital Business Innovation from an User Experience Point of view
• Explain the impact and possibilities of devices
• Explain the impact of technology on the Digital Core
• Explain SAP Leonardo BUILD and SAP BUILD apps
• SAP BUILD
• Define the basic elements of SAP BUILD
• Explain how to gather information of the Users Experience
• Create a project and a study
• Explain how to distill the user information to create a Persona
• Define Viewpoints, and brainstorm to be able to create a story board
• Create a hand sketched prototype
• SAP BUILD LoFi Prototyping
• Define the different kinds of prototyping
• Explain building low fidelity prototypes out of hand-sketched prototypes
• SAP BUILD HIFI Prototyping
• Explain the SAP Fiori Design Principles and Guidelines
• Create a prototype by cloning
• Adjust a prototype
• Adjust the data model and change the data
(Duration)
2 days

(Course announcements)
- In this course, participants will get an overview of the SAP Fiori Cloud solution and how the solution best fits a company’s landscape requirements. Learners will explore the implementation options of SAP Fiori in the Cloud and also learn how SAP Fiori Cloud works in a hybrid deployment architecture running the UI layer in the cloud and consuming the business processes from existing on-premise SAP Business Suite systems. There will be hands-on exercises to gain practical experience.

(Goals)
- This course will prepare you to:
  - Explore SAP User Experience Strategy
  - Explain the general concepts of SAP Fiori and SAP HANA Cloud Platform
  - Use SAP Fiori Cloud
  - Explore the SAP Fiori Launchpad and SAP HANA Cloud Portal
  - Set Up a SAP Fiori Launchpad
  - Understand the SAP Fiori Launchpad Configuration Cockpit
  - Extend SAP Fiori Cloud Apps
  - Manage Extended Apps
  - Apply Theming and Branding
  - Connect to your Corporate System
  - Consume Business Data Securely

(Audience)
- Application Consultant
- Developer

(Course based on software release)
- SAP WTS with local version SAP Web IDE installed

(Content)
- The SAP User Experience Strategy
- Understand the SAP User Experience Strategy
- Explain the general concept of SAP Fiori
- SAP HANA Cloud Platform
- Understand the HANA Cloud Platform
- SAP Fiori Cloud Edition
- Understand SAP Fiori Cloud Edition
- Experience Fiori Cloud, End User Experience
- SAP Fiori Launchpad and SAP HANA Cloud Portal
- Explore SAP Fiori Launchpad on Cloud
- Set Up a SAP Fiori Launchpad
- Understand the SAP Fiori Launchpad Configuration Cockpit
- Explore Site Services for the Launchpad
- Extensibility
- Extend SAP Fiori Cloud Apps
- Manage Extended Apps
• Theming and Branding
• Customize the Look and Feel of Fiori Launchpad
• Consuming Business Data Securely
• Connect to your Corporate System
• Advanced Topics
• Explain Advanced Topics

Notes
• This course is also available as self-study in SAP Learning Hub.
UX403 - SAP Fiori Elements Development

Duration

2 days

Course announcements

• This course is designed to give participants the opportunity to gain the overall understanding and hands on experience of SAP Fiori Elements in their development efforts to create more robust and visually appealing SAP Fiori applications with less effort than freestyle Fiori development. The course will cover SAP’s User Experience design methodology and the overall SAP Fiori Elements design principles, templates and tools for building SAP Fiori apps.
• By way of hands-on exercises, learners will gain practical experience while they build their own SAP Fiori applications using the following floorplan: List Report; Object Page; Overview Page; and Advanced features of List Report and Object Page.

Goals

• This course will prepare you to:
  • Explain the SAP User Experience strategy and guidelines
  • Describe SAP Fiori Elements and its architecture
  • Explain OData Annotation
  • Learn to use Annotation Editor in SAP Web IDE
  • Write annotations for an OData Service
  • Explain the Smart Control and how the Smart Control works with OData Annotation
  • Work with Fiori Elements to support the creation of simple to advanced SAP Fiori reporting apps
  • Explore the fundamentals of List Report, Object Page, Overview Page, Analytic List Page, and advanced usages of List Report and Object Page

Audience

• Developer
• Development Consultant
• Application Consultant
• Solution Architect
• User Experience Designer

Essential

• UX100

Course based on software release

• SAP Fiori 2.0 & SAP S/4HANA 1709

Content

• SAP UX Strategy
• Describe SAP User Experience Strategy
• Explain SAP User Experience Tools and Technologies
• Describe SAP User Experience Use Case for Building Fiori-like Apps
SAP Fiori Elements, Overview

Explain the concept of Fiori Elements
Explain the concept of annotations of OData services
Explain the Concept of Smart Control
Explain Templates for Fiori Elements
Explore the Development Environment
Explore the basic process of building Fiori Elements Application
Use the CDS View and SADL
Use SADL
Explain Metadata Extension
Learn about Scenarios of Fiori Elements Implementation
List Report

Explain Basic Annotations for List Report
Use Searching and Filtering data
Provide the value help
Explain Variant Management
Object Page

Use Basic Annotations for Object Page
Use Header Facets for Object Page
Use Sections and Facets in Object Pages
• Advanced Topics of List Report and Object Page
• Explain the navigation concept and annotations
• Describe options of external navigation
• Use data visualization
• Create charts
• Perform CURD operations with BOPF
• Overview Page
• Get an overview of the Overview Page (OVP)
• Analytic List View
• Get an overview of the Analytical List Page
UX402 - Advanced SAPUI5 Development

Duration
5 days

Course announcements
- This course is designed to give participants the opportunity to gain a much deeper and advanced understanding of the SAP SAPUI5 development framework and overall SAP User Experience design principles and tools for building more advanced level robust SAP Fiori apps. Learners will engage in coding with MVC advanced UI Controls, gain an understanding of basic and advanced data handling techniques, perform application extensibility, and explore advanced scenarios with working in teams via GIT.
- By way of hands-on exercises, learners will gain practical experience while they build their own SAP Fiori applications using SAP SAPUI5 and cloud-based development tools. These hands-on exercises will also give learners a competitive head start into the framework’s more advanced development features.

Goals
- This course will prepare you to:
  - Describe the basic and advanced features of the SAP SAPUI5 framework
  - Explain the SAPUI5 application architectures
  - Perform advanced development techniques
  - Experience working in teams with GIT in SAP SAPUI5 projects
  - Develop custom SAP Fiori applications using SAP Cloud Platform, SAP SAPUI5, Web IDE, and other tools and services available for developers

Audience
- Application Consultant
- Developer
- Development Consultant
• MVC Review and Advanced UI Controls
• Performing an MVC Architecture Review
• Binding Data to a UI5 Control
• Describing Best Practices for SAPUI5 Applications
• Implementing App Navigation
• Implementing a Full-screen Application
• Implementing a Master-Detail Application
• Working with Messages
• Describing Key Responsive Design Controls
• Extending Standard Controls
• Describing Custom Controls
• Creating Control and Component Libraries
• Implementing Unit Tests with Qunit
• Implementing One-Page Acceptance (OPA) Tests
• Advanced Data Handling
• Describing Remote vs. Local OData Services
• Working with the MockServer
• Working with the ODataModel
• Describing OData Deep Inserts
• Introducing SAPUI5 Smart Controls
• Working with SAPUI5 Smart Controls
• Introducing SAP Fiori Elements
• Application Extensibility. Introduction
• Explaining Extension Points
• Describing Other Types of Extensibility in SAPUI5
• Version Control - Working in Teams
• Working with GIT
• Working with GIT Repositories
• Working with Branches
GW100 - SAP Gateway – Building OData Services

Duration

5 days

Course announcements

- This course shows all parts of SAP Gateway, which are available since SAP NetWeaver AS 7.0 (SAP Gateway 2.0), as well as parts added up to SAP S/4HANA 1809. The whole bandwidth of SAP Gateway covering all releases is shown.

Goals

- This course will prepare you to:
  - Explore SAP Gateway architecture and deployment options
  - Perform OData queries and operations with SAP Gateway
  - Define data model and implement CRUD operations
  - Extend SAP Gateway services and build new ones with CDS Views
  - Configure routing and multiple origin support
  - Implement advanced OData operations and introduce OData V4
  - Handle security and consume OData services using SAP Web IDE

Audience

- Developers
- Consultants

Essential

- BC401 (ABAP Objects)

Course based on software release

- SAP S/4HANA 1809
- ABAP Platform 1809
- AS ABAP 7.53

Content

- SAP Gateway and OData Overview
- OData Operations and Queries
- Consuming OData using SAP Web IDE
- SAP Gateway Service Implementation
- Defining a Data Model
- Implementing Read and Change Operations
- SAP Gateway Service Generation
- RFC/BOR Generator
- Search Help Generator
- SAP Gateway Service Redefinition
- Redefining a Data Service
- Redefining a Gateway Service
- SAP Gateway and CDS Views
- SAP Fiori Programming Model
- Data Source Reference and CDS View Annotations
- SAP Gateway Hub Functionalities
- Routing Configuration
- Multiple Origin Composition
- Advanced OData Options
- Function Imports and Media Links
- Expand Operations and Deep Insert Operations
- Handling ETags and Batch Requests
- Offline Support and Server-Side Caching
- SAP Gateway Security
- SAP Gateway OData V4 Support
UX400 - Developing UIs with SAPUI5

Duration
5 days

Course announcements
- This course is designed to give participants foundational knowledge and experience with SAPUI5. The course will begin with an introduction to SAP’s UX Strategy, then move on to fundamental and complex SAPUI5 topics. It is assumed that learners are already familiar with web technologies such as HTML, and JavaScript. Topics include: SAP Web IDE, loading and initializing SAPUI5, managing SAPUI5 dependencies, using views and controllers, and layout controls and fragments, implementing models, data binding, and localization, consuming OData services, implementing components and developing a worklist app.
- There will be hands-on exercises performed during the course to gain experience with the SAPUI5 topics covered in the course. This course is a prerequisite course for more advanced courses on SAPUI5 and SAP Fiori development.

Goals
- This course will prepare you to:
  - Describe SAP’s UX Strategy
  - Describe SAPUI5
  - Use the SAP Web IDE
  - Load and initialize SAPUI5
  - Manage SAPUI5 dependencies
  - Use views and controllers
  - Use layout controls
  - Use fragments
  - Implement models and data binding
  - Implement localization
  - Consume OData services
  - Implement components
  - Develop a worklist app

Audience
- Developer
- Developer Consultant

Essential
- UX399 or equivalent knowledge

Course based on software release
- SAPUI5 1.60

Content
- SAP’s UX Strategy
- SAPUI5 Overview
Notes

- The course is also suitable for participants who are using a SAPUI5 version other than 1.60.
SAPX01 - SAP User Experience Fundamentals and Best Practices

Duration

3 days

Course announcements

- This course is designed to give learners an introduction to SAP User experience from Design Thinking concepts to SAP’s user experience tools, solutions and best practices. The course covers fundamental information about the SAP Fiori platform (on-premise and Cloud), Fiori Apps, SAPUI5, SAP Gateway, SAP Screen Personas, BUILD, and OData. This course will have hands-on exercises and discussions appropriate for the multiple target learner roles.

Goals

- This course will prepare you to:
- Describe the concepts, tools, solutions and architectures core to SAP User Experience
- Validate your understanding of the best practices supported by the different user experience technologies
- Gain some fundamental hands-on experience with SAP User Experience tools and technologies such as SAP Fiori apps, BUILD, SAP Screen Personas, SAPUI5, SAP Gateway and OData

Audience

- Application Consultant
- Business Analyst
- Business Process Architect
- Business Process Owner/Team Lead/Power User
- Development Consultant
- Enterprise Architect
- Executive

- Help Desk/CoE Support
- Industry Specialist
- Program/Project Manager
- Solution Architect
- Technology Consultant
- Trainer
- User
- User Experience Designer

Essential

- None

Course based on software release

- SAP S/4HANA 1709
- AS ABAP 7.52

Content

- Introduction to SAP User Experience (UX)
- Explain Design Thinking
- Explore the SAP User Experience Strategy
- SAP User Experience Technology Architectures
- Explore SAP Fiori Architecture
- Explore SAPUI5 Architecture
- Describe SAP Screen Personas Architecture
- Explain SAP Gateway Architecture
- Describe SAP S/4HANA Architecture
• SAP Gateway and OData
• Explain the OData standard
• Describe SAP Gateway service architecture
• Identify SAP Gateway service components
• Operate central SAP Gateway transactions
• Describe the new OData Provisioning Service
• SAP Fiori
• Perform a Deep Dive into SAP Fiori Apps
• Explore the SAP Fiori Launchpad
• Explore the UI Theme Designer
• Explore SAP Fiori Cloud
• SAPUI5
• Describe SAPUI5
• Operate the SAP Web IDE
• Build and Extend an SAP Fiori App
• SAP Screen Personas
• Explain the SAP Screen Personas solution,
• Access SAP Screen Personas
• Describe and create themes
• Describe the flavor creation process
• Create a flavor
UX410 - Developing SAP Fiori UIs

Duration
5 days

Course announcements
- This is an advanced level course designed to give participants a much deeper learning experience into SAP’s User Experience design methodology, the SAPUI5 framework, and the overall SAP UX design principles for building consumer-grade SAP Fiori UIs.
- Participants will gain practical hands-on experience while they explore more advanced features for building their own SAP Fiori UIs using on an SAP S/4HANA backend. The primary tools used in this course are HANA Cloud Platform, Web IDE and SAPUI5.

Goals
- This course will prepare you to:
  - Describe design guidelines for SAP Fiori
  - Develop UIs according to SAP Fiori App Types
  - Develop custom SAP Fiori UIs using HANA Cloud Platform, Web IDE, and SAPUI5
  - Enhance SAP Fiori UIs

Audience
- Developer
- Developer Consultant
- Application Consultant
- Solution Architect
- Enterprise Architect
- Technology Consultant

Course based on software release
- SAP S/4HANA 1511 On-Premise and WTS to enable HCP and Web IDE development.

Content
- Design Thinking Overview
- Foundations
- SAPUI5 Development
- SAP Fiori Launchpad
- SAP Fiori Design Guidelines
- Layouts
- Controls
- Patterns
- App Types
- UIs according SAP Fiori App Types
- Transactional UIs
- Fact Sheet UIs
- Analytical UIs
- UI2 Services
- Enhancing SAP Fiori UIs
- View Extension
- View Modification
- View Replacement
- Controller Extension

Essential
- SAPX01
- UX009s
- UX100
• Development Infrastructure

Notes
• Please note that this is a brand new replacement for the older SAPX08 and SAPX12 courses.
UX100 - SAP Fiori - Foundation

Duration

5 days

Course announcements

- This course provides an overview of the technologies used with SAP Fiori. It covers the design principles, usage and personalization of the SAP Fiori launchpad, introduction to SAPUI5 and SAP Gateway, as well as understanding and handling of application types with the SAP Fiori reference library. Various architectures will be covered to include SAP Fiori for Suite on any database (deployment options, ABAP development), SAP Fiori for Suite on HANA (Enterprise Search, HANA XS Engine), and SAP Fiori for SAP S/4HANA (CDS Views, SAP Fiori programming model).
- Participants will then learn configuration topics, such as SAP Fiori content model (groups, catalogs), intent-based navigation (tiles, target mappings), SAP Fiori launchpad configuration options, and SAP Smart Business (KPI, evaluations). Creating themes for SAP Fiori, combining SAP Screen Personas with SAP Fiori, adapting SAP Fiori apps at runtime, as well as enhancing SAP Fiori apps are additional hands-on exercises.
- For using SAP Fiori on mobile devices, participants learn the options for SAP Fiori mobile (SAP CP Mobile Services), SAP Fiori for Android and iOS, as well as SAP Mobile Cards. Integration related topics will also be discussed, such as SAP Workflow (My Inbox), SAP Business Client, SAP Enterprise Portal, and SAP Cloud Platform (SAP CP Portal).

Goals

- This course will prepare you to:
  - Work with SAP Fiori Applications
  - Understand the architecture and principles of SAP Fiori
  - Configure and customize SAP Fiori
  - Adapt and mobilize SAP Fiori applications
  - Integrate SAP Fiori in different environments

Audience

- Application Consultant
- Developer
- Enterprise Architect
- Solution Architect
- System Administrator
- System Architect
- Technology Consultant

Essential

- SAPTEC

Course based on software release

- SAP S/4HANA 1809
- ABAP Platform 1809
- AS ABAP 7.53
Content

- End-User Perspective
- SAP Fiori Design
- SAP Fiori Launchpad
- Personalization
- Data Handling
- Technology
- User Interface
- Data Services
- Application Types
- Architecture
- SAP Fiori for Suite on Any DB
- SAP Fiori for Suite on HANA
- SAP Fiori for S/4HANA
- Configuration
- Groups and Catalogs
- Target Mappings
- Launchpad Configuration
- Analytical Applications
• Adaptation
• UI Theme Designer
• SAP Screen Personas
• Adapt SAP Fiori Apps at Runtime
• Extend SAP Fiori Applications
• Mobility
• SAP Fiori Mobile
• SAP Fiori for iOS
• SAP Mobile Cards
• Integration
• SAP Workflow
• SAP Enterprise portal
• SAP Cloud Platform
The "SAP Certified Development Associate - SAP Fiori Application Developer" certification exam verifies that the candidate has the required knowledge in the area of SAP Fiori application development as it pertains to the Developer consultant profile. This certification builds on the basic knowledge gained by a developer from formal SAP Education training and preferably refined by practical experience within a SAP Fiori application development project team in a mentored role. This is an entry level certification.

Notes
- To ensure success, SAP recommends combining education courses and hands-on experience to prepare for your certification exam as questions will test your ability to apply the knowledge you have gained in training.
- You are not allowed to use any reference materials during the certification test (no access to online documentation or to any SAP system).