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## SAP UI5 FIORI LOT COURSE STRUCTURE

SAP UI5 FIORI provides exposure to the UI technologies of SAP. The following table lists the course structure for SAP UI5 FIORI LOT.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Course** | **Duration** | **Remarks** | **Soft Skill Days** | **Day no** |
| 1 | Power skills ( Behavioural) -Foundation – session 1 | 1 | Full Day of Power skills ( Behavioural) -Foundation – session 1 | 1 | 1 |
| 2 | Foundation for UI5 | 3 |  |  | 2,3,4 |
| 3 | Power skills ( Behavioural ) -Foundation – session 2 | 0.25 | 2 Hrs. of Power skills ( Behavioural ) -Foundation – session 2 | 5 | 5 |
| 4 | ABAP | 3.75 |  |  | 5,6,7,8 |
| 5 | Theory test for ABAP, Foundation for Ui5 MCQ Test + ABAP Practical Test | 0.5 | Module Assessment |  | 9 |
| 6 | Gateway/ODATA/CDS | 0.5 |  |  | 9 |
| 7 | Power skills ( Behavioural ) -Foundation – session 3 | 0.25 | 2 Hrs. of Power skills ( Behavioural ) -Foundation – session 3 | 10 | 10 |
| 8 | Gateway/ODATA/CDS Contd | 4.75 |  |  | 10,11,12,14 |
| 9 | Power skills ( Behavioural ) -Foundation – session 4 | 1 | Full Day of Power skills ( Behavioural ) -Foundation – session 4 | 15 | 15 |
| 10 | Gateway/ODATA/CDS Contd | 0.5 |  |  | 16 |
| 11 | Gateway/ODATA/CDS - Sprint Implementation | 2.4 |  |  | 16,17,18 |
| 12 | Gateway/ODATA/CDS -MCQ | 0.1 | MCQ Assessment |  | 18 |
| 13 | Gateway/ODATA/CDS - Sprint Evaluation | 1 |  |  | 19 |
| 14 | Power skills ( Behavioural ) -Foundation – session 5 | 1 | Full Day of Power skills ( Behavioural ) -Foundation – session 5 | 20 | 20 |
| 16 | SAP UI5,Fiori | 4 |  |  | 21,22,23,24 |
| 17 | Power skills ( Behavioural ) -Foundation – session 6 | 0.25 | 2 Hrs. of Power skills ( Behavioural ) -Foundation – session 6 | 25 | 25 |
| 18 | SAP UI5,Fiori Contd | 4.75 |  |  | 25,26,27,28,29 |
| 19 | Power skills ( Behavioural ) -Foundation – session 7 | 0.25 | 2 Hrs. of Power skills ( Behavioural ) -Foundation – session 7 | 30 | 30 |
| 20 | SAP UI5,Fiori Contd | 1.75 |  |  | 30,31 |
| 22 | Power skills (Behavioural ) -Foundation – session 8 | 1 | Full Day of Power skills (Behavioural ) -Foundation – session 8 | 32 | 32 |
|  | SAP UI5,Fiori Contd | 2 |  |  | 33,34 |
| 24 | Power skills ( Behavioural ) -Foundation – session 9 | 0.25 | 2 Hrs. of Power skills ( Behavioural ) -Foundation – session 9 | 35 | 35 |
|  | SAP UI5,Fiori - Sprint Implementation | 2.65 |  |  | 35,36,37 |
| 25 | SAP UI5,Fiori - MCQ | 0.1 | MCQ Assessment |  | 37 |
| 26 | SAP UI5,Fiori - Sprint Evaluation | 1 |  |  | 38 |
| 27 | L1 Preparation | 1 |  |  | 39 |
| 28 | L1 Test | 1 | L1 Assessment (MCQ - Concept & Code-based Qs) |  | 40 |
| **Total Training Duration** | | **40** |  |  |  |

**SAP UI5\_FIORI Curriculum**

**Basic Foundation for UI5**

**Program Duration**: 3 Days

**Contents**:

* HTML
  + Creating our first web page
  + Line breaks, paragraphs and headers
  + Bold, italics and comments
  + Lists
  + Linking to another page
  + images
  + directory structures
  + New audio tag, New video tag
  + Table
  + Forms, Get/Post method, action
  + Understand the R/3 system
  + Understand the Basics of SAP
  + Log on to SAP and do the Basic Navigations
  + Create Search Help
* CSS (Cascade Style sheet)
  + External style sheet
  + Font properties
  + CSS comments
  + Box model, padding, border, margin, padding
  + Classes
  + Div and Span
  + Working with colors
  + Background images
  + ID's, child selectors, pseudo classes
  + Styling links, styling lists
  + Rounded corners
  + Linear gradient
  + Float and clear
  + New tags for the layout
* DOM
  + Document Object Model
  + Relating HTML Elements
* Javascript
  + Introduction to JavaScript
  + Statements and Comments
  + Finding Errors
  + Variables, Data Types
  + Operators
  + Strings
  + Events
  + Functions, Functions with Parameters
  + Functional with Multiple Parameters
  + Variable scope
  + Arrays
  + Statements if, else, nesting if, Complex Conditions, switch
  + While loop, for loop
  + Objects, properties and methods
  + Referencing elements in JavaScript
  + Changing an image source
  + Forms, form values
  + Form validation text boxes, and passwords
  + Radio buttons, Check Boxes
  + Creating HTML Element
  + Modifying HTML Elements
  + Appending HTML Elements
  + Deleting HTML Elements
  + Regular Expressions
  + Object oriented Javascript
  + Prototype in Javascript
  + Javascript Literals
  + Javascript Objects, properties, and functions
* Jquery
  + Selectors
  + Events
  + DOM Manipulation

**Basic ABAP**

**Program Duration**: 3.75 days Days

**Contents**:

* Data Dictionary
  + Use Data Dictionary to maintain Database Objects
  + Work with
    - Domain
    - Data Elements
    - Tables
    - Structures
    - Table Types
    - Views
    - Search Helps
    - Lock Objects
* Joints or SQL Operations (Basic ABAP Programming)
  + Understand the Need for ABAP
  + Know the types of ABAP/4 Programs
  + Create Reports
  + Write the Program Code
  + Test the Program
  + Know ABAP/4 Language Elements
  + Combine similar statements to one statement
  + Illustrate Defining Data Types and Data Objects
  + Recognize the System Variables

**SAP Netweaver Gateway & OData**

**Program Duration: 5.75 Days**

**Contents:**

* SAP Netweaver Gateway
  + Introduction NetWeaver Gateway
  + NetWeaver Gateway Usage
  + Gateway Architecture overview
  + Technical Components Involved
  + Introduction to REST
  + Introduction to OData
  + OData advantages
  + Introduction to OData formats JSON and
  + Overview of Structure of an OData Serv
  + Overview of Service Document
  + Overview of Service Metadata Document
  + Association
  + Deep Insert
* OData Operations
  + Create
  + Read
  + Update
  + Delete
  + OData Query Options
  + Filtering and Projecting ($filter and $select)
  + Sorting ($orderby)
  + Client-Side Paging ($top, $skip, and $inlinecount)
  + Counting ($count)
  + Inlining ($expand)
  + Formatting ($format)
  + $ (Select)
* CDS
  + Attribute View, Analytical view and Calculation View
  + Define a CDS
  + CDS with Joints, Projection and selection
  + Using ABAP Annotation in CDS view
  + Defining CDS views with input paramaters
  + CDS with Associations
  + Enchaning a CDS view
  + CDS with Auth
  + CDS Table Function
  + Genarating Odata serive from CDS views
  + Consumption of CDS in Fiori
  + Analytics based on CDS
  + SQL Features in CDS

**SAP UI5 FIORI CORE**

**Program Duration**: 12.5 Days

**Contents**:

* Installing SAPUI5
* SAPUI5 Tools
* Versioning of SAPUI5
* Upgrading jQuery for SAPUI5
* Documentation
* Naming Conventions for Control and Application Development
* Browser and Platform Matrixes
* Getting Started with SAPUI5
* Create Your First SAPUI5 Application
* Create Your First Mobile SAPUI5 Application
* Develop Your First Application using SAPUI5 Tools
* Testing SAPUI5 Applications
* Introduction to SAP BTP
  + BTP services & overview
  + Cloud portal Introduction
  + Business Application Studio Setup ( BAS )
  + Use of destination services
  + Overview of IAAS, SAAS and PAAS
* Concepts
* S Model View Controller (MVC)
* Resource Handling
* Libraries
* SAPUI5 Components
* Fragments
* Initializing and Loading SAPUI5
* Bootstrapping: Loading and Initializing SAPUI5 in HTML Pages
* Initialization Process
* Configuration of the SAPUI5 Runtime
* Models and Data Binding
* Data Binding: Getting Started
* Models and Data Binding in Applications
* Binding Types
* Using the Data Binding Type System
* Calculated Fields for Data Binding
* Using Data Binding for Data Export
* Property Metadata Binding Monitoring
* NW Administrator
* Transport Mechanism
* Proxy to File / File to Proxy
* Building the UI
* Instantiating Views
* Implementing XML Views
* Handling Events in JSON Views
* Typed Views and Controllers
* File Names and Locations (View and Controller)
* View Cloning
* Support for Unique IDs
* Fragments
* HTML Templating in SAPUI5
* Navigation
* Working with Controls in SAPUI5
* Declarative Support
* Translating SAPUI5 Applications
* Identifying the Language Code / Locale
* Resource Bundles
* Use of Localized Texts in Applications
* Support Translation
* Extensibility
* Example: Component Configuration
* Controller Extension
* Controller Replacement
* I18n Resource Text Customization
* Limitations
* Caveats Regarding Stability Across Application Upgrades
* Supportability
* Troubleshooting
* Debugging
* Logging and Tracing
* Troubleshooting: Common Issues
* Browser Debugging for ABAP Developers
* SAPUI5 Diagnostics
* SAPUI5 Mobile Diagnostics
* Developing Content for SAPUI5
* Development Conventions and Guidelines
* WEBIDE/ BAS / VS
* Create a new SAPUI5 application
* Development process overview
* Development environment overview
* Building SAP Fiori-like UIs with SAPUI5
* Deploy to SAPUI5 ABAP Repository
* Fiori
* sap.m.Table
* sap.m.app API
* sap.m.List API
* sap.m.Icontabbar API
* Fragments
* Introduction to Fiori
* Architecture & Knowing Fiori Library
* Types of Fiori App
* Key Steps for Fiori Configuration
* Troubleshooting
* Introduction to Fiori Elements
* Understanding Fiori Elements Floor Plans
* SAP Fiori Elements Feature Map
* Extending SAP Fiori Elements-Based Apps
* SAP Fiori theming over view
* Version management ( GIT ) overview