

ABAP Fundamentals Syllabus SAP P_BTPA_2408

Module 1 : SAP Basics :-

SAP Architecture (R/3, ECC, S/4HANA)

SAP GUI Navigation & T-Codes

Workbench (SE38, SE80)

Module 2: ABAP Programming BasicsBatch-oriented production :-

Data Types & Variables

Operators & Expressions

Control Statements (IF, LOOP, CASE)

Module 3: Data Dictionary (DDIC) REM planning & execution

Tables, Views, Structures

Data Elements & Domains

Search Helps, Lock Objects

Module 4: Internal Tables & Open SQL Kanban control cycles

Standard / Sorted / Hashed Tables

CRUD operations (SELECT, INSERT, UPDATE)

Joins & For All Entries

Module 5: ReportsFrom demand → planning → execution → goods receipt

Classical Reports

Interactive Reports

ALV Reports (Grid/List)

Module 6: Modularization

Subroutines

Function Modules

Includes

Module 7: Dialog ProgrammingSAP clean core strategy

Screen Painter (PBO/PAI)

Module Pool Programming



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Module 8: Smart Forms & Scripts

SAP Scripts

Smart Forms

Module 9: Debugging & Performance

Breakpoints, Watchpoints

Runtime Analysis



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BTP - CAPM (Cloud Application Programming Model)

Module 1: CAP Overview :-

CAP Architecture
Node.js / Java basics
Cloud-native development

Module 2: Data Modeling :-

CDS (Core Data Services)
Entities & Relationships

Module 3: Service Layer :-

OData & REST APIs
Service Definitions

Module 4: Business Logic :-

Handlers (Node.js/Java)
Events & Validations

Module 5: UI Development :-

SAP Fiori / UI5 integration
Freestyle vs Fiori Elements

Module 6: Tools & Deployment :-

SAP Business Application Studio
Git Integration
Deployment to BTP

CAP is used for cloud-native apps outside core S/4 (side-by-side extensions)



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BTP - CPI (Cloud Platform Integration)

Module 1: Integration Basics :-

SAP Integration Suite overview
CPI Architecture

Module 2: Integration Flow (iFlow):-

CDS (Core Data Services)
Entities & Relationships

Module 3: Message Processing :-

Message Mapping
XSLT Mapping
Groovy Scripting

Module 4: Connectivity :-

SOAP, REST, IDoc, RFC
API Management

Module 5: Security :-

OAuth, Certificates
Authentication & Authorization

Module 6: Monitoring & Debugging:-

Message Monitoring



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BTP - RAP (RESTful ABAP Programming Model)

Module 1: BTP Fundamentals :-

Global Account, Subaccount
BTP Cockpit
Cloud Foundry Basics

Module 2: ABAP Cloud (Steampunk) :-

ABAP on Cloud Environment
ADT (Eclipse) setup
Clean Core principles

Module 3: Core Concepts :-

CDS Views (Data Modeling)
Annotations
OData Services

Module 4: RAP Architecture :-

Business Object Modeling
Behavior Definition
Behavior Implementation

Module 5: RAP Development :-

Managed vs Unmanaged scenarios
CRUD operations using EML
Service Definition & Binding

Module 6: Fiori Integration :-

Fiori Elements Apps
UI annotations

Module 7: Deployment :-

Service Publishing
Testing APIs

RAP is used to build HANA-optimized APIs & Fiori apps on ABAP Cloud



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