

♦ JAVITATECH TRAINING ACADEMY · LIVE ONLINE · HYDERABAD, INDIA

COURSE 1 OF 2 · MODERN SAP DEVELOPER TRACK · FOUNDATION

SAP ABAP on S/4HANA

Core ABAP · ABAP Objects · ABAP on HANA (CDS & AMDP) · OData & embedded analytics · Enhancements, workflow & interfaces · AI-assisted development

This course trains you to work as an SAP ABAP developer on today's platform — SAP S/4HANA. In 3 months of live online classes — 65 sessions, 1 hour a day — you learn classic ABAP the way it is still used on most S/4HANA projects, then move to ABAP on HANA (CDS views, AMDP, code pushdown), OData on SAP Gateway and CDS, embedded analytics and AI-assisted ABAP practices — hands-on where the practice system supports it, honest walkthroughs where it does not — and finish with structured interview preparation. Transactional RAP, Fiori Elements apps, ABAP Cloud and SAP BTP foundations follow in Course 2. Taught live by trainers with real-time SAP project experience.

65 LIVE SESSIONS 3 MONTHS · MON-FRI · 1 HOUR A DAY	LIVE ONLINE LIVE ON ZOOM · RECORDINGS 1 YEAR FROM FULL PAYMENT
PRACTICE SYSTEM REQUIREMENTS AND ACCESS ARRANGEMENTS CONFIRMED BEFORE PAID ENROLMENT	CERTIFICATE JAVITATECH CERTIFICATE OF COMPLETION AFTER THE FINAL ASSESSMENT

♦ HOW THE COURSE RUNS

Format	Live online on Zoom, no classroom. This live course has no recorded-only option.
Duration & practice	3 months · 65 live sessions · one live session of 1 hour every day, Monday to Friday — 13 teaching weeks, excluding holidays. 65 hours refers to live teaching. Assignments and project practice take place outside class; approximately 45–60 minutes of independent practice per teaching day is recommended.
Free demo	Sessions 1, 2 and 3 are free demo sessions — attend first, enrol only if you like the teaching
Systems	Hands-on exercises need an S/4HANA on-premise system with SAP GUI and Eclipse ADT. Practice-system requirements and access arrangements will be confirmed before paid enrolment. Cloud services, AI subscriptions, Adobe Document Services, external integrations and extra SAP systems or clients are not included — those topics are walkthroughs or overviews (legend on page 2).
Batch dates	Announced on the JavitaTech WhatsApp channel and javitatech.com — message us on WhatsApp for the next batch

Sessions 1–3 are free — attend first, then enrol. Call / WhatsApp +91 87122 87999 · info@javitatech.com · www.javitatech.com

The course fee is shared personally on WhatsApp (GST-inclusive). Practice-system requirements and access arrangements will be confirmed before paid enrolment. Timings for each batch are shared with the batch dates.

♦ HOW EACH TOPIC IS DELIVERED — THE THREE LABELS USED THROUGHOUT THIS DOCUMENT

HANDS-ON	Hands-on — students implement and execute the exercise on the practice system.
WALKTHROUGH	Code/configuration walkthrough — prepared code or a configuration flow is explained step by step; live execution is not promised.
OVERVIEW	Conceptual overview — diagrams, slides, architecture and scenarios; product access is not included.

♦ ABOUT THIS PROGRAM

Classic ABAP, ABAP on HANA and the road to modern SAP — in one course

Most SAP customers are on, or moving to, SAP S/4HANA — and S/4HANA projects still need developers who can write reports, enhancements, forms, interfaces and BAPIs in classic ABAP. The same projects increasingly expect CDS views, AMDP, OData services, analytics and clean, testable code. This course teaches both, in the order a developer learns them on a project: hands-on on an S/4HANA on-premise practice system wherever the system supports it, and as honest code/configuration walkthroughs or conceptual overviews where a topic needs tools, licences or systems the practice system does not include.

You start with the ABAP language and the S/4HANA data model, build reports, ALV and dialog programs, then master ABAP Objects, enhancements and BADIs, and learn how RFC, BAPI, IDoc and web-service interfaces are built. From Week 8 you move to ABAP on HANA — CDS view entities, AMDP and performance tools, with S/4HANA custom-code readiness as a walkthrough. In Week 10 you build OData services on SAP Gateway and on CDS, test your read-only CDS service in the Fiori Elements preview, and model embedded analytics, and see the S/4HANA Migration Cockpit and LTMOM in a walkthrough. Week 11 covers AI-assisted ABAP techniques and the capstone project; Weeks 12–13 principally cover real project practices, career preparation and the final assessment.

Course 2 — SAP ABAP Cloud / RAP with Fiori — continues from here. It introduces the architecture first, guides onboarding in Session 2 and introduces the first RAP application in Session 3. Beginners take Course 1 before Course 2.

Built for 2026 — not a 2016 syllabus

S/4HANA data model (ACDOCA, MATDOC, Business Partner)	HANDS-ON
CDS view entities — not obsolete DDIC-based views	HANDS-ON
AMDP & code pushdown	HANDS-ON
Embedded analytics with CDS	HANDS-ON
CDS-based OData & Fiori Elements preview (read-only service)	HANDS-ON
OData V2 on SAP Gateway — CRUD	HANDS-ON
ATC, ABAP Unit & Clean ABAP	HANDS-ON
AI code review & verification	HANDS-ON
SmartForms	HANDS-ON
S/4HANA Migration Cockpit & LTMOM (not LSMW)	WALKTHROUGH
Classic & flexible workflow	WALKTHROUGH
S/4HANA custom-code readiness (ATC)	WALKTHROUGH
MCP-based AI coding agents	WALKTHROUGH
Adobe Forms & ADS architecture	WALKTHROUGH

The topics in this plan are in use today on S/4HANA on-premise and private cloud. The CDS, AMDP, ABAP Objects, ABAP SQL and modern-syntax knowledge transfers to S/4HANA Cloud Public Edition and ABAP Cloud, although the released APIs, tools and permissions there differ and are not covered here in depth — this is not a public-cloud implementation course. Transactional RAP, Fiori Elements application development, ABAP Cloud and SAP BTP foundations continue in Course 2, which includes targeted revision of these foundations. Legacy technologies — SAPscript, LSMW, logical databases and SAP Query, Web Dynpro ABAP with FPM and classical WRITE-list development — still exist in some customer systems; they are outside the practical scope of both courses and appear only as brief legacy context and interview comparisons in the career sessions.

♦ WHAT'S INCLUDED

Everything you get when you enrol

- ♦ **65 live sessions** — Monday to Friday, 1 hour a day, taught by experienced trainers — real-time SAP experts from the JavitaTech expert team. 65 hours refers to live teaching.
- ♦ **3 free demo sessions** — Sessions 1–3 are open to everyone. Enrol after any of them; from Session 4 only enrolled students continue.
- ♦ **Revision recordings** — Every session is recorded. Paid students keep the recordings for 1 year from full fee payment.
- ♦ **S/4HANA practice system** — The hands-on exercises — reports, ALV, ABAP Objects, CDS, AMDP, SmartForms, Gateway OData and the Fiori Elements preview of a read-only CDS service — run on an S/4HANA on-premise system with SAP GUI and Eclipse ADT. Practice-system requirements and access arrangements will be confirmed before paid enrolment. Additional cloud services, AI subscriptions, Adobe Document Services, external systems and extra clients are not included. If your employer permits it and gives you an S/4HANA system with equivalent developer capabilities, you can use that.
- ♦ **Questions answered live** — Ask your questions in the session — every class ends with question time. Academic questions are answered during the live sessions only; for admin help (access, recordings, payments), message JavitaTech on WhatsApp.
- ♦ **Scheduled assignments & 4 projects** — Scheduled assignments and project milestones, three mini-projects and a capstone that mirror real project tickets — reviewed by your mentors. This practice takes place outside class; plan about 45–60 minutes a day.
- ♦ **Session notes & code** — Slides, notes and code samples shared after every class.
- ♦ **Career sessions** — Three interview-preparation sessions, resume and LinkedIn review, SAP certification guidance and cohort mock interviews.
- ♦ **Certificate of Completion** — A JavitaTech certificate after the final scenario assessment — digital, with a unique ID, ready for LinkedIn.
- ♦ **Direct upgrade to Course 2** — Course 1 ends with CDS, Gateway/OData, a Fiori Elements preview of a read-only CDS service and AI-assisted ABAP practices. Course 2 — SAP ABAP Cloud / RAP with Fiori — introduces the architecture first, guides onboarding in Session 2 and introduces the first RAP application in Session 3, then covers transactional RAP business objects, behaviours, draft, EML and Fiori Elements application development. Course 2 includes targeted revision and applies the foundations to more advanced development scenarios.



♦ HOW YOUR TRAINING WORKS

From free demo to certificate — four steps

1	Attend the 3 free demo sessions. No payment needed. Join the first three live sessions, meet the trainer and see the S/4HANA system live.
2	Enrol. Pay in full, or 50% at enrolment and the balance within 20–25 days of your first paid session. Practice-system requirements and access arrangements will be confirmed before paid enrolment.
3	Learn and build every weekday. One live hour a day — hands-on on the practice system for the practical topics, walkthroughs and overviews for the rest — with scheduled assignments, project milestones and four projects reviewed by mentors.
4	Prepare for interviews and get certified. Interview preparation, resume review, SAP certification guidance, cohort mock interviews, the final assessment and your JavitaTech certificate — then continue to Course 2.

♦ WHO SHOULD JOIN

Built for people starting their SAP career — and developers catching up with S/4HANA

- ♦ Freshers and final-year students (B.Tech / B.E. / MCA / B.Sc / M.Sc)
- ♦ SAP functional, Basis or end-user consultants who want to become technical
- ♦ Job seekers moving into SAP from any background
- ♦ ECC ABAP developers who need S/4HANA, HANA and modern-SAP skills
- ♦ Working professionals switching from Java, .NET, Python, testing or support roles
- ♦ Anyone planning to continue into transactional RAP, ABAP Cloud and SAP BTP foundations (Course 2) — beginners take Course 1 first

Prerequisite: basic programming logic (variables, loops, conditions) from any language, and comfort with English technical terms. No SAP experience is needed — Session 1 starts from what SAP is. Not sure? Attend the free demo sessions and decide.

♦ SKILLS YOU'LL GAIN

Skills this course trains — grouped by delivery mode

Every badge below maps to a session in the day-wise plan and carries that session's delivery mode. Readiness for project work is the training objective of this course, not a guaranteed outcome.

**HANDS-ON**

You implement and execute these on the practice system

- Core ABAP
- Modern ABAP syntax (7.40+)
- ABAP Dictionary
- S/4HANA data model exploration
- ABAP SQL & joins
- Reports & SALV with drill-down
- Background jobs (scheduling & monitoring)
- Dialog programming (maintenance)
- Authorizations & secure coding
- SmartForms & PDF output
- BDC & file handling
- ABAP Objects
- Exceptions & events
- ABAP Unit & ATC
- Customer exits & enhancement framework
- BAdIs (custom definition & implementation)
- RFC-enabled function modules
- Calling a read BAPI
- JSON handling in ABAP
- Custom IDoc structures
- CDS view entities
- CDS access control
- AMDP & SQLScript
- ADBC
- Performance tools (SAT, ST05)
- OData V2 on SAP Gateway (CRUD)
- CDS-based OData & Fiori Elements preview (read-only service)
- Embedded analytics (CDS cube & analytical query)
- AI output review & verification
- Interview & resume preparation

WALKTHROUGH

Prepared code or configuration explained step by step; live execution not promised

- Editable ALV Grid, toolbar & events
- SAP LUW, application log & change documents
- Adobe Forms (SFP) & ADS architecture
- Email output (CL_BCS)
- Classic SAP Business Workflow
- S/4HANA flexible workflow & Manage Workflows
- Cross-system RFC & BAPI document posting
- SOAP & REST connectivity
- ALE/IDoc configuration & processing
- Migration Cockpit & LTMOM
- S/4HANA custom-code migration (remote ATC, Custom Code Migration app)
- Query Browser, View Browser & Custom Analytical Queries
- MCP architecture & AI coding agents
- abapGit & GitHub portfolio
- Capstone extensions (BAPI posting, BAdIs, IDoc/RFC)

OVERVIEW

Concepts, architecture and scenarios; product access not included

- Code Vulnerability Analyzer (CVA)
- AIF
- SAP Integration Suite (CPI)
- SAP Build Process Automation
- Key user extensibility (Custom Fields & Custom Logic)
- Joule & SAP Business AI
- BRF+ & output management
- HANA calculation views
- SAP certification (C_ABAPD) guidance

Where each skill applies — on-premise, private cloud, public cloud

Transferable across S/4HANA editions

Concepts transfer to ABAP Cloud and SAP S/4HANA Cloud Public Edition, but APIs, tools and permissions differ by edition and release. Course 2 introduces ABAP Cloud development and selected edition differences; comprehensive public-cloud administration and implementation are outside both courses.

Modern ABAP syntax

ABAP SQL

ABAP Objects & ABAP Unit

CDS view entities

AMDP

CDS-based OData

Embedded analytics (CDS)

ATC & Clean ABAP

AI-assisted practices

S/4HANA on-premise & private cloud (RISE)

Where most projects run today — commonly needed in support, rollout and conversion projects. Labels show the delivery mode where it is not hands-on.

Module pool (custom GUI transactions)

SmartForms

Adobe Forms

WALKTHROUGH

BDC & file handling

Migration Cockpit & LTMOM

WALKTHROUGH

Customer exits, BAdIs, enhancement framework

Classic & flexible workflow

WALKTHROUGH

RFC & BAPI

ALE/IDoc

WALKTHROUGH

AIF

OVERVIEW

OData V2 (SEGW)

Transports (SE09/SE10)

SAP GUI & Eclipse ADT

Continue in Course 2

SAP ABAP Cloud / RAP with Fiori — the direct upgrade after this course.

- Transactional RAP application development.
- ABAP Cloud programming model and released APIs.
- Draft, EML, actions, validations and side effects.
- OData V4 and Fiori Elements application development.
- Clean-core extension patterns.
- BTP development foundations.
- Advanced integration, deployment and AI topics through the delivery modes stated in Course 2.

Outside the practical scope of both courses

Legacy technologies you may still meet in some customer systems.

- Web Dynpro ABAP and Floorplan Manager.
- SAPscript.
- LSMW.
- Logical databases and SAP Query.
- Classical WRITE-list application development.

These topics are not deferred to Course 2. Brief legacy-context and interview comparisons may be discussed; dedicated implementation training is not included.

♦ HANDS-ON PROJECTS

Four projects you will build — step by step, from each week's exercises

MINI-PROJECT 1 · WEEK
3

Sales ALV report HANDS-ON

Selection screen, SALV report with drill-down, scheduled as a background job; authorization object and check added in Week 4.

MINI-PROJECT 2 · WEEK
5

OO order validator HANDS-ON

Classes and interfaces, custom exceptions, ABAP Unit tests, ALV with Integrated Data Access.

MINI-PROJECT 3 · WEEK
9

Sales analytics on HANA HANDS-ON

CDS view entities with associations and access control, an AMDP-backed table function, tuned with the ABAP Profiler and SQL trace.

CAPSTONE · WEEK 11

Vendor Invoice Tracker HANDS-ON WALKTHROUGH

Built by you: custom tables and CDS model, OO validation logic with unit tests, ALV, a read-only OData service with Fiori Elements preview, SmartForm output and a code-quality review (ATC, ABAP Unit) — assembled from the objects you built in earlier weeks, not started from scratch in three sessions. **Documented extension designs / code walkthroughs:** posting the invoice as an SAP accounting document with a BAPI, business-process BAdIs and IDoc/RFC integration. The tracker records invoices in your custom tables; posting an SAP accounting document is explained, not built.

♦ COURSE CURRICULUM — AT A GLANCE

13 modules · 3 months · 65 live sessions of 1 hour each

One module a week, one live hour a day, Monday to Friday — 13 teaching weeks, excluding holidays. Scheduled assignments and project milestones are checked by your mentors. Practical sessions have one principal exercise; walkthrough and overview sessions use explained examples and scenarios. The day-wise plan follows on the next pages.

01

Getting started: SAP, S/4HANA & modern ABAP

WEEK 1 · DAYS 1-5

SAP and S/4HANA for developers, your environment, ABAP fundamentals, internal tables and modern syntax — hands-on from Session 2.

S/4HANA architecture | OVERVIEW

SAP GUI & Eclipse ADT

ABAP basics & debugger

Internal tables

Modern syntax (7.40+)



02

ABAP Dictionary, S/4HANA data model & ABAP SQL

WEEK 2 · DAYS 6-10

Tables, structures, views and search helps; how S/4HANA's data model differs from ECC; ABAP SQL old and new — all hands-on.

[SE11 & ADT](#)[Views & search helps](#)[Lock objects](#)[ACDOCA · MATDOC · BP](#)[Joins & CTEs](#)[Window functions](#)

03

Modularization, reports, ALV & debugging

WEEK 3 · DAYS 11-15

Function modules, selection screens, SALV reports with drill-down, background-job scheduling and the debugger hands-on; editable ALV Grid, SAP LUW and the update task, number ranges, change documents and application log explained with prepared code — ending in Mini-project 1.

[Function modules](#)[Selection screens](#)[SALV & drill-down](#)[Editable ALV Grid](#)[WALKTHROUGH](#)[Background jobs](#)[SAP LUW & update task](#)[WALKTHROUGH](#)[SNRO · CDHDR · SLG1](#)[WALKTHROUGH](#)[Debugger & ST22](#)

04

Dialog programming, authorizations, forms & data migration

WEEK 4 · DAYS 16-20

Maintaining custom GUI transactions, authorizations and secure coding, SmartForms and BDC hands-on; the Code Vulnerability Analyzer as an overview; Adobe Forms as a code/configuration walkthrough; the S/4HANA Migration Cockpit introduced as an overview.

[Module pool \(maintenance\)](#)[Authorizations & PFCG](#)[Secure coding](#)[CVA](#) [OVERVIEW](#)[SmartForms](#)[Adobe Forms](#) [WALKTHROUGH](#)[BDC & file handling](#)[Migration Cockpit](#) [OVERVIEW](#)

05

ABAP Objects & ABAP Unit

WEEK 5 · DAYS 21-25

Classes, inheritance, interfaces, exceptions, events, dynamic programming, unit testing and Clean ABAP — hands-on, ending in Mini-project 2.

[Classes & interfaces](#)[Inheritance & polymorphism](#)[Exceptions & events](#)[RTTI](#)[ABAP Unit](#)[ATC & Clean ABAP](#)[ALV IDA](#)

06

Enhancements, BAdIs & workflow

WEEK 6 · DAYS 26-30

Customer exits, the enhancement framework and BAdIs hands-on, BTEs as an overview; classic SAP Business Workflow and S/4HANA flexible workflow as configuration walkthroughs; enhancement scenarios with a BRF+ overview.

[Customer exits](#)[Enhancement framework](#)[BTE](#) [OVERVIEW](#)[BAdIs](#)[Classic workflow](#)[WALKTHROUGH](#)[Flexible workflow](#) [WALKTHROUGH](#)[BRF+](#) [OVERVIEW](#)[Key user tools](#) [OVERVIEW](#)



07 Interfaces: RFC, BAPI, web services & IDoc

WEEK 7 · DAYS 31-35

RFC-enabled function modules, BAPIs, JSON handling and custom IDoc structures hands-on on the practice system; cross-system RFC, document posting with BAPIs, SOAP/REST connectivity and the end-to-end IDoc exchange as walkthroughs with sample payloads.

RFC & bgRFC

BAPIs

SOAP & REST

WALKTHROUGH

JSON handling

ALE/IDoc

WALKTHROUGH

Integration Suite

OVERVIEW

08 ABAP on HANA: CDS views & code pushdown

WEEK 8 · DAYS 36-40

The code-to-data paradigm, ADT tooling, CDS view entities, associations, annotations, the VDM, access control and analytics — hands-on.

Code-to-data

ADT tooling

CDS view entities

Associations & annotations

S/4HANA VDM

Access control

Analytical queries

09 AMDP, ADBC, performance & S/4HANA custom code

WEEK 9 · DAYS 41-45

SQLScript and AMDP, table functions, ADBC, HANA features and tuning with the ABAP Profiler and SQL trace hands-on, ending in Mini-project 3; SQL Monitor, SWLT and custom-code migration to S/4HANA as walkthroughs.

SQLScript & AMDP

Table functions

ADBC

Fuzzy search

SAT · ST05

SQLM · SWLT

WALKTHROUGH

Custom Code Migration

WALKTHROUGH

10 OData, CDS analytics & S/4HANA data migration

WEEK 10 · DAYS 46-50

Two sessions of OData on SAP Gateway (read and CRUD; deep insert and \$batch as extensions), CDS-based OData with the Fiori Elements preview of a read-only CDS service and embedded analytics with CDS hands-on; the S/4HANA Migration Cockpit with LTMOM as a walkthrough.

OData V2 (SEGW) ×2

CDS-based OData & FE preview (read-only service)

Embedded analytics

Migration Cockpit & LTMOM

WALKTHROUGH

11 AI for ABAP developers & real-time project

WEEK 11 · DAYS 51-55

Prompt design, AI code review and verification with supplied examples; MCP client/model/server/tool architecture and abapGit/GitHub as walkthroughs; a three-day guided capstone build assembled from earlier exercises.

AI prompts & verification

MCP architecture

WALKTHROUGH

abapGit & GitHub

WALKTHROUGH

Capstone project

12 Real project practices & interview preparation

WEEK 12 · DAYS 56-60

How real SAP projects run, three interview-preparation sessions and resume/LinkedIn review.

SAP Activate

RICEFW

Technical specs

Transports

Interview Q&A ×3

Resume & LinkedIn



13

Certification, mock interviews, assessment & next step

WEEK 13 · DAYS 61-65

SAP certification guidance, cohort mock interviews, the final scenario assessment and your roadmap into Course 2.

C_ABAPD guidance

Mock interviews (cohort)

Scenario assessment

Roadmap to Course 2

First weeks on the job

♦ DAY-WISE PLAN

Every session, day by day

Monday to Friday, 1 hour a day. Sessions 1-3 are the free demo sessions. Each session ends with question time; assignments are reviewed in the following week. The last column names each session's delivery mode — **HANDS-ON** **WALKTHROUGH** **OVERVIEW** — as defined on page 2; career sessions are marked **CAREER**. The order may be fine-tuned by your trainer for the batch, but the topics below are covered.

Day	Session	What you'll learn	Delivery mode & outcome
WEEK 1 · MODULE 1 Getting started: SAP, S/4HANA & modern ABAP			
01 FREE DEMO	SAP, S/4HANA and the ABAP developer in 2026	What SAP is and how companies run on it; S/4HANA architecture (SAP HANA, Fiori, ABAP Platform); on-premise vs S/4HANA Cloud vs SAP BTP; what an ABAP developer does on a real project — the RICEFW objects (reports, interfaces, conversions, enhancements, forms, workflow); the journey classic ABAP → ABAP on HANA → OData and analytics → transactional RAP, Fiori and ABAP Cloud (Course 2), with AI-assisted practices along the way; the Modern SAP Developer Track (Course 1 → Course 2) and how each topic is delivered (hands-on, walkthrough or overview).	OVERVIEW Demo of the apps you will build; software checklist (SAP GUI, Eclipse ADT; Windows recommended)
02 FREE DEMO	Your development environment	Logging in to the S/4HANA practice system; SAP GUI navigation, transaction codes, favourites; installing Eclipse ADT — your primary editor, SAP's recommended tool — and connecting it to the system; SAP GUI (SE80 / SE38) where the classic tools still live; packages (\$TMP local objects vs packages, moving objects into a package), transport requests and tasks (SE09 / SE10), the Object Navigator (SE80); your first ABAP program in SE38 and in ADT; syntax check, activate, run.	HANDS-ON Create your package and your first program
03 FREE DEMO	ABAP language basics	Data types and declarations (DATA, TYPES, CONSTANTS, inline DATA()); built-in types; string templates; arithmetic and string operations; IF, CASE, DO, WHILE, CHECK, EXIT; the ABAP debugger — breakpoints, single-step, variables.	HANDS-ON Three small programs and your first debugging session
04	Structures & internal tables	Structures and nested structures; standard, sorted and hashed tables and their keys; APPEND, INSERT, READ TABLE, LOOP, MODIFY, DELETE, SORT, COLLECT; control-break statements (AT FIRST / AT NEW / AT END OF / AT LAST); table expressions itab[]; line_exists(); field symbols and data references; work areas vs field symbols.	HANDS-ON Mini order-processing program built on internal tables



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 1 · MODULE 1 Getting started: SAP, S/4HANA & modern ABAP			
05	Modern ABAP syntax (7.40 and later)	Constructor expressions VALUE, CORRESPONDING, NEW, CONV, COND, SWITCH, REDUCE, FILTER, REF, EXACT, CAST; FOR iterations and LET; LOOP AT ... GROUP BY; built-in string functions and regular expressions (FIND REGEX, cl_abap_matcher); FINAL declarations; how 2026 code is written — and how to read the old code you will inherit.	HANDS-ON Assignment 1: rewrite a classic program in modern syntax ASSIGNMENT
WEEK 2 · MODULE 2 ABAP Dictionary, S/4HANA data model & ABAP SQL			
06	ABAP Dictionary 1 – tables	Domains, data elements, transparent tables (SE11 and ADT) — and why pooled and cluster tables disappeared on HANA; technical settings, delivery class, buffering; foreign keys, check tables and value tables; currency and quantity fields; table maintenance generator (SM30 / SE54) with table maintenance events.	HANDS-ON Create the Z-tables for the course scenario
07	ABAP Dictionary 2 – structures, views, search helps, locks	Structures, include and append structures, table types; database, projection, maintenance and help views — and where CDS replaces them; elementary and collective search helps and search help exits; lock objects, ENQUEUE/DEQUEUE, SM12; data preview in ADT.	HANDS-ON Search help and lock object for your Z-table
08	The S/4HANA data model	What changed from ECC: universal journal ACDOCA, MATDOC, Business Partner (BP) as customer and vendor master, PRCD_ELEMENTS instead of KONV, compatibility and redirect views; the simplification list; finding tables with SE16H, the View Browser app and L_* VDM views; demo data models SFLIGHT and /DMO/ flight.	HANDS-ON Explore S/4HANA tables for a sales-order scenario on the practice system
09	ABAP SQL 1 – reading & changing data	SELECT SINGLE, INTO TABLE and loops; WHERE, ORDER BY, aggregates, GROUP BY, HAVING; INNER and LEFT OUTER JOIN; FOR ALL ENTRIES and when a join is better on HANA; subqueries and EXISTS; INSERT, UPDATE, MODIFY, DELETE; COMMIT and ROLLBACK WORK; @ host variables.	HANDS-ON 10 queries on the flight data model
10	ABAP SQL 2 – new features on HANA	Comma-separated select lists; SQL expressions — CASE, arithmetic, string, date and time functions; UNION and UNION ALL; common table expressions (WITH); window functions; SELECT ... INTO @DATA(); client handling; ABAP SQL vs native SQL/ADBC.	HANDS-ON Assignment 2: reporting queries on S/4HANA tables ASSIGNMENT



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 3 · MODULE 3 Modularization, reports, ALV & debugging			
11	Modularization	Includes; subroutines only as far as reading existing code (obsolete for new development); function groups and function modules (SE37) with IMPORTING, EXPORTING, CHANGING, TABLES and exceptions, pass by value vs pass by reference; macros (avoid); classes as the modern unit; text elements; message classes (SE91), message types A / E / I / S / W / X, dynamic messages (MESSAGE ... WITH).	HANDS-ON Build a function-module library for your scenario
12	Selection screens, report events & messages	PARAMETERS, SELECT-OPTIONS, blocks, radio buttons and checkboxes, variants and selection variables (TVARVC); dynamic selection screens with MODIF ID and LOOP AT SCREEN; report events — INITIALIZATION, AT SELECTION-SCREEN and its variants, START-OF-SELECTION, END-OF-SELECTION; input validation; selection texts and translation (SE63); why report output goes straight to ALV on S/4HANA (classical WRITE lists only as interview knowledge, Session 57); on-premise only — in ABAP Cloud, Fiori Elements filters replace selection screens.	HANDS-ON Sales report with a selection screen
13	ALV reports – CL_SALV_TABLE & ALV Grid	Interactive reporting; SALV columns, headers, layouts, sorting, totals; events — double-click, hotspot, user command; drill-down to a second list; export to Excel; CL_GUI_ALV_GRID in a custom container — editable ALV, toolbar buttons, events; reading REUSE_ALV_* function modules in existing code; SALV hierarchy-sequential and tree variants (overview); when a report should be a CDS view + Fiori app instead.	HANDS-ON WALKTHROUGH Hands-on: build a SALV report with one drill-down event. Walkthrough: editable ALV Grid, toolbar handling and additional events using prepared code. Further implementation is independent practice.
14	Background jobs, SAP LUW & cross-application services	Background processing — SM36 / SM37, JOB_OPEN / JOB_SUBMIT / JOB_CLOSE, job steps and spool; SAP LUW vs database LUW, the update task (CALL FUNCTION IN UPDATE TASK, V1 / V2), bundling and COMMIT WORK; SAP memory vs ABAP memory (SET / GET PARAMETER, EXPORT / IMPORT); number range objects (SNRO); change documents (CDHDR / CDPOS); application log (SLG1); long texts (READ_TEXT / SAVE_TEXT).	HANDS-ON WALKTHROUGH Hands-on: schedule the existing report as a background job and inspect its execution. Walkthrough: application-log and change-document implementation using prepared code. Reinforce these patterns through follow-up practice.
15	Debugging & runtime errors	The new ABAP debugger in depth — breakpoints, watchpoints, layers, table tool, changing variable and table contents on the fly; saving test data in SE37; debugging in ADT; reading and debugging standard SAP code — call stack, finding where a value comes from; ST22 dump analysis; SM21; debugging background jobs and RFC.	HANDS-ON Mini-project 1: ALV report with drill-down, scheduled as a job PROJECT



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 4 · MODULE 4 Dialog programming, authorizations, forms & data migration			
16	Dialog programming – maintaining custom GUI transactions	Where dynpro programs still live on S/4HANA on-premise — custom transactions in support, rollout and conversion projects (new UIs are Fiori); Screen Painter (SE51); flow logic PBO / PAI / POV / POH; screen fields and OK code; GUI status (Menu Painter); CHAIN / ENDCHAIN and FIELD checks; CALL SCREEN / LEAVE TO SCREEN; table control, tabstrip and subscreens; F4 help and validations; creating a transaction (SE93); reading and fixing an existing dynpro program.	HANDS-ON Fix and extend an existing two-screen transaction with a table control (the graphical Screen Painter needs SAP GUI for Windows)
17	Authorizations & secure coding for ABAP developers	Authorization objects (SU21), AUTHORITY-CHECK and authorization fields; PFCG roles, profiles and SU24 basics for developers; SU53 and ST01 traces; how a Fiori app reaches a user — catalogs and roles; secure ABAP — dynamic SQL and SQL injection, directory traversal in file handling, hard-coded credentials; ATC security checks and the Code Vulnerability Analyzer (overview); data privacy basics.	HANDS-ON Add an authorization object and check to Mini-project 1
18	SmartForms	SmartForms — still common on S/4HANA on-premise; SMARTFORMS: pages, main / secondary / final windows, tables, templates, text modules, flow logic; graphics (SE78), Smart Styles with paragraph and character formats, standard texts (SO10); form interface; driver program and the generated function module; PDF preview and printing; converting the output to PDF (CONVERT_OTF_2_PDF); emailing it with attachments (CL_BCS) as a code walkthrough.	HANDS-ON WALKTHROUGH Hands-on: invoice SmartForm — driver program and PDF conversion. Walkthrough: email send with CL_BCS
19	Adobe Forms & output management	SAP Interactive Forms by Adobe (SFP) — print vs interactive (online / offline) forms, interface, context, layout basics, logos, driver program, debugging the form interface; how Adobe Document Services (ADS) renders a form — the ADS architecture explained; why Adobe Forms is the S/4HANA standard (and the form technology in S/4HANA Cloud); output management in S/4HANA (BRF+ based output control; NAST in legacy) — overview.	WALKTHROUGH OVERVIEW Walkthrough: prepared Adobe form — interface, context and driver code explained step by step. Overview: ADS architecture and output management. ADS and the form designer are not part of the practice-system access, so Adobe PDF generation by students is not promised
20	Data migration & file handling	BDC — still used on S/4HANA on-premise for one-off uploads: recording (SHDB), CALL TRANSACTION, session method (SM35), table controls in BDC, error handling; GUI_UPLOAD / GUI_DOWNLOAD, application-server files (OPEN DATASET, AL11), CSV and Excel handling; S/4HANA Migration Cockpit (Migrate Your Data app — the successor of LTMC; migration objects, staging tables) introduced as the modern way — walkthrough in Session 50.	HANDS-ON Assignment 3: BDC upload with SmartForm output ASSIGNMENT



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 5 · MODULE 5 ABAP Objects & ABAP Unit			
21	ABAP Objects 1 – classes & objects	Why OO; classes, objects, attributes, methods, constructors; static vs instance; public, protected, private; local vs global classes (SE24 and ADT); functional methods and method chaining; ABAP Doc; creating a transaction for a class method (SE93).	HANDS-ON Your first global class
22	ABAP Objects 2 – inheritance, interfaces & polymorphism	Inheritance and redefinition; abstract and final; interfaces; polymorphism; up-cast and down-cast with CAST; friends; me and super; designing classes for reuse.	HANDS-ON Payment-type class hierarchy with an interface
23	ABAP Objects 3 – exceptions, events & dynamic programming	Class-based exceptions — custom exception classes, T100 messages, RAISE EXCEPTION NEW, TRY / CATCH / CLEANUP, resumable exceptions; events and handlers; singleton and factory patterns; RTTI (CL_ABAP_TPEDESCR family); dynamic SELECT and dynamic internal tables.	HANDS-ON Exception design for your scenario
24	ABAP Unit, ATC & Clean ABAP	Test classes (FOR TESTING), assertions (CL_ABAP_UNIT_ASSERT), fixtures; running tests in ADT; test doubles (CL_ABAP_TESTDOUBLE, ABAP SQL test environment); ATC and Code Inspector basics; the Clean ABAP style guide and code pal for ABAP checks.	HANDS-ON Unit tests for your class
25	OO in practice – refactoring & ALV with IDA	Refactor a procedural report into classes and interfaces; separating data access, business logic and UI; ALV with Integrated Data Access (CL_SALV_GUI_TABLE_IDA) — select-options with CL_SALV_RANGE_TAB_COLLECTOR, field catalog and toolbar — as your first code pushdown.	HANDS-ON Mini-project 2: OO order validator with unit tests PROJECT
Day	Session	What you'll learn	Delivery mode & outcome
WEEK 6 · MODULE 6 Enhancements, BAdIs & workflow			
26	Customer exits & the enhancement framework	Modification vs enhancement; customer exits (SMOD / CMOD) — function exits, screen exits, menu exits; finding exits for a transaction; the enhancement framework — implicit and explicit enhancement points and sections, source-code plug-ins, class enhancements (pre, post and overwrite exits), function-group enhancements, enhancement implementations and transport; Business Transaction Events (FIBF) — overview.	HANDS-ON Customer exit and an implicit enhancement in a standard transaction
27	BAdIs	Classic vs new (kernel) BAdIs; SE18 / SE19; filter-dependent and multiple-use BAdIs; fallback classes; enhancement spots; finding BAdIs (CL_EXITHANDLER breakpoint, SE84); a validation BAdI on a purchase or sales document explained with prepared code.	HANDS-ON WALKTHROUGH Hands-on: custom BAdI definition and implementation with a filter. Walkthrough: validation BAdI on a standard purchase or sales document



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 6 · MODULE 6 Enhancements, BAdIs & workflow			
28	Classic SAP Business Workflow for ABAP developers	Workflow Builder (SWDD), tasks and container binding, ABAP classes as workflow objects (IF_WORKFLOW), agent determination and rules (PFAC), triggering events (SWE2, SWEL), deadlines, Business Workplace (SBWP) and My Inbox, workflow log (SWI1), basic customizing (SWU3) — the classic workflows still running in many S/4HANA on-premise systems.	WALKTHROUGH Walkthrough: an approval workflow with a class-based object and a user-decision step — explained with diagrams, configuration screens and sample code; a functioning end-to-end approval scenario is not promised
29	S/4HANA flexible workflow	Flexible workflow scenarios (purchase requisition, purchase order, supplier invoice, journal entry verification); the Manage Workflows app — steps, preconditions, agent rules, deadlines; custom conditions and agent determination through the scenario BAdIs; My Inbox and workflow monitoring; classic vs flexible — which one a ticket needs; SAP Build Process Automation (overview).	WALKTHROUGH Walkthrough: flexible-workflow configuration and a custom-condition BAdI explained with diagrams, configuration screens and sample code
30	Enhancement scenarios & BRF+ overview	Choosing the right option for typical tickets — add a field, validate a document, default a value, change a print output, add an approval step; when a ticket needs no ABAP at all — the key user Custom Fields and Custom Logic apps (overview here; extensibility overview and configuration walkthrough in Course 2); enhancing a standard transaction end to end; documenting and transporting enhancements; BRF+ decision tables and where ABAP calls them (overview).	HANDS-ON OVERVIEW Assignment 4: enhancement scenario (hands-on); key user tools and BRF+ as overview ASSIGNMENT
Day	Session	What you'll learn	Delivery mode & outcome
WEEK 7 · MODULE 7 Interfaces: RFC, BAPI, web services & IDoc			
31	RFC	RFC destinations (SM59); RFC-enabled function modules; synchronous, asynchronous, transactional, queued and bgRFC; parallel processing with STARTING NEW TASK; calling an RFC in another system or client; exception and error handling; RFC in S/4HANA landscapes.	HANDS-ON WALKTHROUGH Hands-on: RFC-enabled function module and an RFC destination on the practice system. Walkthrough: cross-client and cross-system calls (a second client or system is not provided)
32	BAPI	BAPI concepts and the BAPI Explorer; standard BAPIs (BAPI_SALESORDER_CREATEFROMDAT2, BAPI_MATERIAL_SAVEDATA, BAPI_PO_CREATE1); BAPI_TRANSACTION_COMMIT / ROLLBACK; RETURN handling; extension structures (EXTENSIONIN); creating your own BAPI; BAPIs vs released APIs in ABAP Cloud — the wrapper idea you meet again in Course 2.	HANDS-ON WALKTHROUGH Hands-on: call a standard read BAPI from your program and handle RETURN. Walkthrough: posting an SAP document with a BAPI and BAPI_TRANSACTION_COMMIT



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 7 · MODULE 7 Interfaces: RFC, BAPI, web services & IDoc			
33	Web services & REST from ABAP	SOAP web services — SOAMANAGER, provider and consumer, ABAP proxies (SPROXY) overview; calling a REST API with CL_HTTP_CLIENT; JSON with /UI2/CL_JSON; exposing an HTTP service (ICF handler); SAP Business Accelerator Hub (api.sap.com) and S/4HANA APIs.	HANDS-ON WALKTHROUGH Hands-on: JSON serialization and parsing with /UI2/CL_JSON on sample payloads. Walkthrough: REST call with CL_HTTP_CLIENT, an ICF handler and SOAP consumption (external connectivity is not part of the practice-system access)
34	ALE/IDoc 1 – outbound	IDoc architecture — control, data and status records; segments (WE31), IDoc types (WE30), message types (WE81 / WE82); logical systems and client assignment (BD54 / SCC4), partner profiles (WE20), ports (WE21), distribution model (BD64); outbound processing (BD10 / BD12); monitoring (WE02, WE05, WE19).	HANDS-ON WALKTHROUGH Hands-on: custom segment and IDoc type (WE31 / WE30). Walkthrough: partner profiles, ports, distribution model and outbound processing of a MATMAS / DEBMAS IDoc, shown with a sample IDoc
35	ALE/IDoc 2 – inbound & custom IDocs	Inbound processing and process codes; custom segments, IDoc types and extensions; inbound function module; error handling and reprocessing (BD87, WE19); change pointers (BD52 / BD61); IDoc and segment filtering, reduced message types (BD53), message control (NAST output types → IDoc), IDoc user exits; EDI basics; monitoring interfaces with SAP Application Interface Framework (AIF) — overview; IDoc vs API vs SAP Integration Suite (CPI) in 2026 — overview.	HANDS-ON WALKTHROUGH Assignment 5: custom IDoc type, extension and inbound function module coded against a sample payload (hands-on); the end-to-end exchange with a partner system as walkthrough ASSIGNMENT
WEEK 8 · MODULE 8 ABAP on HANA: CDS views & code pushdown			
36	HANA for ABAP developers	In-memory and column store, compression, parallel processing; the code-to-data (pushdown) paradigm; mandatory code adaptations for HANA and the Runtime Check Monitor (SRTCM); performance golden rules updated for HANA; the ABAP on HANA toolset — ADT, CDS, AMDP, ADBC, ALV IDA; SAP HANA vs S/4HANA vs ABAP Platform versions.	HANDS-ON Measure a report before and after pushdown
37	ADT & HANA tooling	Eclipse ADT in depth — element info, quick fixes, refactoring, where-used, ABAP Doc, ATC in ADT, SQL console and data preview, ABAP Profiler; SAP HANA database explorer and HANA Studio (overview); demo data models SFLIGHT, EPM and /DMO/ flight.	HANDS-ON ADT productivity drill



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 8 · MODULE 8 ABAP on HANA: CDS views & code pushdown			
38	CDS view entities 1	Core Data Services — DDIC-based views (DEFINE VIEW, obsolete for new development) vs view entities (DEFINE VIEW ENTITY); select lists, joins, unions; CDS built-in functions, CASE, casts and typed literals; input parameters; session variables; ADT CDS tools — data preview, dependency analyzer.	HANDS-ON First CDS view entities on the /DMO/ flight model
39	CDS view entities 2 – associations, annotations & the VDM	Associations and path expressions, exposed associations; annotations — @EndUserText, @Semantics, @Search, @UI, @Analytics, @ObjectModel; basic → composite → consumption layering; the S/4HANA Virtual Data Model (I_* and C_* views) and reusing standard views; EXTEND VIEW ENTITY; virtual elements (overview — used with Fiori and RAP in Course 2).	HANDS-ON Consumption view with associations and annotations
40	CDS 3 – access control, table functions & analytics	Access control (DCL) — DEFINE ROLE, PFCG-based and literal conditions, @AccessControl.authorizationCheck; CDS table functions with AMDP; CDS hierarchies (overview); analytical CDS queries for embedded analytics and how to preview them; CDS unit tests with the CDS test double framework.	HANDS-ON Assignment 6: CDS model for the course scenario ASSIGNMENT

Day	Session	What you'll learn	Delivery mode & outcome
WEEK 9 · MODULE 9 AMDP, ADBC, performance & S/4HANA custom code			
41	AMDP 1	SQLScript essentials — declarations, SELECT into table variables, control flow, built-in functions; AMDP classes (IF_AMDP_MARKER_HDB); AMDP procedures and methods; calling AMDP from ABAP; exception handling and the AMDP exception hierarchy; the AMDP debugger in ADT; restrictions.	HANDS-ON First AMDP procedure
42	AMDP 2 & table functions	AMDP functions for CDS table functions; USING and OPTIONS READ-ONLY; input and output table parameters; passing SELECT-OPTIONS to AMDP (CL_SHDB_SELTAB, APPLY_FILTER); AMDP BADIs (overview); error handling; CDS vs AMDP vs ABAP SQL vs ADBC — the decision guide.	HANDS-ON CDS table function backed by AMDP
43	ADBC, native SQL & HANA modelling for ABAPers	ADBC — CL_SQL_STATEMENT, CL_SQL_CONNECTION, result sets; native SQL vs ABAP SQL and native SQL pitfalls (on-premise only — not available in ABAP Cloud); HANA-specific functions — fuzzy search, currency and unit conversion in CDS and AMDP; HANA calculation views and SAP HANA Cloud modelling — overview.	HANDS-ON OVERVIEW Hands-on: fuzzy search on customer names. Overview: HANA calculation views



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 9 · MODULE 9 AMDP, ADBC, performance & S/4HANA custom code			
44	Performance analysis & tuning on HANA	SQL Monitor (SQLM), SQL Performance Tuning Worklist (SWLT), ABAP Profiler / runtime analysis (SAT), SQL trace (ST05), explain plan and PlanViz basics, ATC / Code Inspector performance checks (variant PERFORMANCE_DB), table buffering, indexes on HANA; anti-patterns — SELECT inside LOOP, nested loops, FOR ALL ENTRIES without checks, SELECT *.	HANDS-ON Tune a slow report and prove the gain with the ABAP Profiler and SQL trace
45	Custom code migration to S/4HANA	Why custom code must change — data-model simplification, MATNR 40, obsolete statements; Simplification Database (SYCM); ATC remote checks (S/4HANA readiness and ABAP Cloud readiness); the Custom Code Migration app; quick fixes in ADT; usage analysis (SUSG); how a conversion project runs.	HANDS-ON WALKTHROUGH Hands-on · Mini-project 3: CDS + AMDP analytics report. Walkthrough: remote ATC checks, the Custom Code Migration app and SYCM — explained, not run by students PROJECT
Day	Session	What you'll learn	Delivery mode & outcome
WEEK 10 · MODULE 10 OData, CDS analytics & S/4HANA data migration			
46	OData on SAP Gateway 1 – concepts & read services	OData concepts — REST vs SOAP, JSON and XML, EDM types, service, entity types and sets, navigation, \$filter / \$top / \$skip / \$orderby / \$expand; SAP Gateway architecture — hub vs embedded; a SEGW project from a DDIC structure and from a CDS reference (Reference Data Source); MPC and DPC base and extension classes; GET_ENTITYSET and GET_ENTITY with filters and paging; registering the service (/IWFND/MAINT_SERVICE); testing with the Gateway client (/IWFND/GW_CLIENT).	HANDS-ON Read-only OData V2 service on your Z-table
47	OData on SAP Gateway 2 – CRUD, deep entities & performance	CREATE, UPDATE and DELETE in the DPC; error handling and messages (/IWBEP/CX_MGW_BUSI_EXCEPTION, message container); paging and \$count; Gateway tracing and error log (/IWFND/TRACES, /IWFND/ERROR_LOG), cache cleanup; securing a service. Extensions explained with prepared code: deep insert (CREATE_DEEP_ENTITY) and \$expand (GET_EXPANDED_ENTITYSET), function imports, \$batch and change sets; media handling (overview).	HANDS-ON WALKTHROUGH Hands-on: CRUD OData V2 service on your Z-table. Walkthrough: deep insert, \$expand and \$batch / change sets as extensions



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 10 · MODULE 10 OData, CDS analytics & S/4HANA data migration			
48	CDS-based OData & the Fiori Elements preview	Exposing CDS view entities as OData — service definition and service binding (OData V2 and V4; UI and Web API), publishing, and the Fiori Elements preview in ADT as your test tool; the @UI annotations that shape the preview (lineItem, selectionField, headerInfo); reading the legacy @OData.publish annotation and SEGW-reference services in existing landscapes. Use the Fiori Elements preview to test this course's read-only CDS service. Transactional RAP behaviour, draft and application development are introduced in Course 2.	HANDS-ON List Report preview of your read-only CDS service in the Fiori Elements preview (the Course 1 exercise stays read-only; transactional behaviour and launchpad deployment are Course 2 topics)
49	Embedded analytics with CDS	CDS analytical modelling with dimensions and cubes — @Analytics.dataCategory (#CUBE, #DIMENSION), measures and aggregations, currency conversion in queries, hierarchies (overview); analytical projection views using DEFINE TRANSIENT VIEW ENTITY and PROVIDER CONTRACT ANALYTICAL_QUERY; comparison with legacy @Analytics.query-based queries; previewing queries — the Query Browser and View Browser apps and the Custom Analytical Queries app as walkthroughs; KPI tiles and the Analytical List Page (overview); reusing S/4HANA standard queries; performance considerations.	HANDS-ON WALKTHROUGH Hands-on: model a small CDS cube and analytical query using the syntax supported by the installed S/4HANA release. Walkthrough: Query Browser, View Browser and Custom Analytical Queries apps
50	S/4HANA data migration – Migration Cockpit & LTMOM	The Migrate Your Data app — migration projects, the staging-tables approach, templates, simulation and error handling; the Migration Object Modeler (LTMOM) — custom migration objects and field rules; Migration Cockpit vs BAPI-based loads vs BDC — choosing per object; data migration in a new implementation vs an S/4HANA conversion.	WALKTHROUGH HANDS-ON Walkthrough: a migration project in the Migrate Your Data app and a custom migration object in LTMOM. Assignment 7 (hands-on): migration design for a data set — object choice, field mapping and error handling — plus a file-based load into your Z-tables; a completed Cockpit migration is not required or promised ASSIGNMENT

Day	Session	What you'll learn	Delivery mode & outcome
WEEK 11 · MODULE 11 AI for ABAP developers & real-time project			
51	AI for ABAP developers 1 – working with AI assistants	Using AI to write, explain, refactor and document ABAP; prompt design and prompt templates for CRUD, BAPI calls, ALV, unit tests and dump analysis; verifying AI output with syntax check, ATC and ABAP Unit; typical AI mistakes (invented function modules); SAP's own direction — Joule and SAP Business AI as an architecture overview, not a licensed student tool in either course; what interviews now ask.	HANDS-ON OVERVIEW Hands-on: review, correct and verify a supplied AI-generated class with ABAP Unit and ATC (supplied examples — no AI subscription is required or provided). Overview: Joule and SAP Business AI



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 11 · MODULE 11 AI for ABAP developers & real-time project			
52	AI for ABAP developers 2 – MCP & AI coding agents	Model Context Protocol (MCP) explained — client, model, server and tool architecture; how an AI coding assistant (for example Claude Code in VS Code) connects to an ABAP system through an ABAP MCP server, shown with diagrams and scripts — read a table, generate a class with tests, explain a dump, review a report; an AI code-review workflow with guardrails; abapGit and GitHub for your portfolio.	WALKTHROUGH HANDS-ON Walkthrough: MCP architecture and an ABAP MCP server flow shown with scripts. Hands-on: apply the AI code-review checklist to supplied code. Claude Code, paid model access and a live SAP-connected agent are not provided
53	Real-time project 1/3 – design & data	Capstone 'Vendor Invoice Tracker' on S/4HANA — requirement walk-through and technical specification; Z-tables with maintenance views, search helps, authorization object; CDS interface and consumption views — assembled and extended from the objects you built in Weeks 2, 4 and 8, not started from scratch.	HANDS-ON Build the data layer PROJECT
54	Real-time project 2/3 – logic & UI	OO application layer — classes, exceptions, unit tests; ALV report; CDS-based read-only OData service with the Fiori Elements preview; SmartForm output. Documented extension designs / code walkthroughs: BAdI validation and posting the invoice as an SAP accounting document with a BAPI — the tracker records invoices in your custom tables; it does not post an SAP accounting document.	HANDS-ON WALKTHROUGH Build the application layer (hands-on); BAPI posting and BAdI validation as walkthrough PROJECT
55	Real-time project 3/3 – integration, performance & review	IDoc / RFC integration as a documented extension design and code walkthrough; AMDP and CDS performance check with SAT and SQL trace; ATC and ABAP Cloud readiness checks; technical documentation; AI-assisted and mentor code review.	HANDS-ON WALKTHROUGH Assignment 8: capstone submission and presentation PROJECT
Day	Session	What you'll learn	Delivery mode & outcome
WEEK 12 · MODULE 12 Real project practices & interview preparation			
56	How real SAP projects work	Implementation, rollout, support (AMS), upgrade and S/4HANA conversion projects; SAP Activate phases; roles — functional, technical, Basis, PM; RICEFW / WRICEF objects; functional spec → technical spec; DEV / QAS / PRD transport landscape — Transport Organizer (SE09 / SE10), workbench vs customizing requests, tasks, releasing, transport of copies — release and cutover; ticketing tools and SLAs; code review; git (abapGit / gCTS); documentation standards.	CAREER Write the technical spec for your capstone



Day	Session	What you'll learn	Delivery mode & outcome
WEEK 12 · MODULE 12 Real project practices & interview preparation			
57	Interview preparation 1 – core ABAP	Top questions with model answers — data types and internal tables, ABAP Dictionary, ABAP SQL and joins, modularization, reports and ALV, module pool, forms, BDC; the ECC-era questions interviewers still ask (classical and interactive lists, SAPscript, LSMW, Web Dynpro) — brief legacy context and comparisons so you can answer them, without dedicated implementation training; answering with examples from this course.	CAREER Q&A drill
58	Interview preparation 2 – OO, enhancements & interfaces	OO ABAP, exceptions, ABAP Unit; user exits, BAdIs, enhancement framework; RFC, BAPI, IDoc, web services, OData — scenario questions ('how would you ...').	CAREER Scenario Q&A drill
59	Interview preparation 3 – ABAP on HANA & modern SAP	CDS, AMDP, performance tools, S/4HANA migration, Fiori and OData, ABAP Cloud and clean core basics, how to answer RAP questions before Course 2, AI questions; presenting your project; HR and behavioural rounds for freshers and experienced developers.	CAREER Project pitch practice
60	Resume & LinkedIn	Fresher and 1–3-year SAP ABAP resume structure; writing project descriptions from this course; keywords recruiters search (S/4HANA, CDS, AMDP, OData, Fiori, RAP, BTP); LinkedIn headline, about and skills; Naukri profile tips; GitHub / abapGit portfolio; common mistakes.	CAREER Assignment 9: submit your resume for mentor review ASSIGNMENT
Day	Session	What you'll learn	Delivery mode & outcome
WEEK 13 · MODULE 13 Certification, mock interviews, assessment & your next step			
61	SAP certification guidance	SAP Certified Associate – Back-End Developer – ABAP Cloud (C_ABAPD) — how its topic areas relate to Course 1 and Course 2 (this programme is not a complete exam-coverage course and does not issue SAP credentials); exam format and registration (SAP Learning and the Certification Hub); free SAP Learning journeys; a study plan; JavitaTech Certificate of Completion criteria.	CAREER Your personal certification plan
62	Mock interviews	Cohort mock interviews — sample technical interviews conducted live with mentor feedback, on fresher and experienced tracks; improving answers; handling questions you don't know. Not every student can be interviewed individually within one class; a question bank is shared for self-practice.	CAREER Cohort mock-interview session
63	Final scenario assessment	Hands-on scenario assessment on the practice system, set by your mentor — the requirement for your JavitaTech Certificate of Completion.	CAREER Assessment (hands-on, on the practice system)



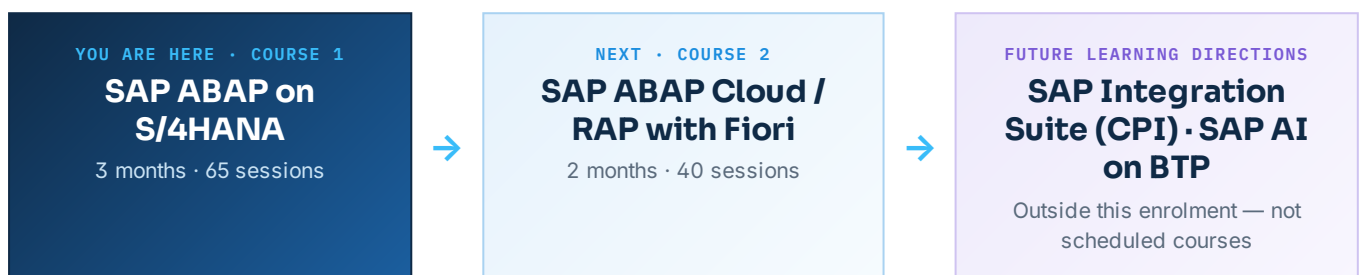
Day	Session	What you'll learn	Delivery mode & outcome
WEEK 13 · MODULE 13 Certification, mock interviews, assessment & your next step			
64	Assessment review & the modern SAP developer roadmap	Assessment walkthrough; what to learn next — Course 2: SAP ABAP Cloud / RAP with Fiori (your direct upgrade, with targeted revision built in); future learning directions beyond this enrolment, such as SAP Integration Suite (CPI) and SAP AI on BTP; how Course 1 students move into Course 2.	CAREER Your 6-month learning plan
65	Your first weeks as an SAP ABAP developer	Reading standard SAP code; SAP Notes, the SAP Support Portal and KBAs, implementing a Note with SNOTE; debugging standard transactions; handling support tickets; transport of copies and version management; working with functional consultants; doubt-clearing marathon; certificate issue and the alumni community.	CAREER Doubt-clearing marathon

♦ YOUR LEARNING PATH

After this course: continue to Course 2

Course 1 aims to make you a productive ABAP developer on S/4HANA. Course 2 — SAP ABAP Cloud / RAP with Fiori — takes you into the model SAP uses for new development: transactional RAP business objects with behaviours, draft, EML, actions, validations and side effects; the ABAP Cloud programming model and released APIs; OData V4 and Fiori Elements application development; clean-core extension patterns; BTP development foundations; and advanced integration, deployment and AI topics through the delivery modes stated in Course 2. Joule and MCP continue there as architecture and code-walkthrough topics, not as guaranteed licensed student tools; Course 2 does not promise full SAP BTP, full SAPUI5, Joule Studio or SAP AI engineering training.

Course 1 gives you the foundations Course 2 builds on — ABAP Objects, ABAP Unit, CDS view entities, Gateway/OData and AI-assisted practices. Course 2 introduces the architecture first, guides onboarding in Session 2 and introduces the first RAP application in Session 3, and includes targeted revision that applies these foundations to more advanced development scenarios. Course 1 students join Course 2 directly — no entry assessment. Beginners take Course 1 before Course 2; separate academy batches may run at the same time, but we do not encourage taking both simultaneously. Ask us on WhatsApp about the Course 2 upgrade.



♦ CERTIFICATION

Finish strong — with a certificate to show for it

JAVITATECH · CERTIFICATE OF COMPLETION

SAP ABAP on S/4HANA

Awarded when you attend the live sessions, complete the hands-on exercises and scheduled assignments, and pass the end-of-course scenario assessment set by your mentor. Issued as a digital PDF with a unique certificate ID — add it to your resume and LinkedIn profile, and back it up with the four projects you built.

Honest note: this is a JavitaTech training credential, not an official SAP certification. SAP's own certification exams — for this track, SAP Certified Associate – Back-End Developer – ABAP Cloud (C_ABAPD) — are conducted independently by SAP and taken separately at your cost. This program builds the practical foundation and includes a guidance session on how to prepare; it does not claim complete exam coverage, and completion does not guarantee employment.

♦ ADMISSION · FEES · REFUND

Simple, transparent policies

- ♦ **Three free demo sessions.** Sessions 1, 2 and 3 of every batch are free. Enrol after any of them; from Session 4 only enrolled students continue.
- ♦ **Fee.** Shared personally on WhatsApp, GST-inclusive. Pay in full, or 50% at enrolment and the balance within 20–25 days of your first paid session. Practice-system requirements and access arrangements will be confirmed before paid enrolment.
- ♦ **Refund.** If you withdraw, requests are accepted within 2 days of your first paid session (demo sessions are not counted); 15% of the total fee is non-refundable and refunds are processed within 15 business days. If JavitaTech cancels a batch, all fees paid are refunded in full, including the 15%.
- ♦ **Recordings.** Paid students keep every session's recording for 1 year from full fee payment.
- ♦ **Support.** Academic questions are answered live, during the sessions only. For admin help (access, recordings, payments), message JavitaTech on WhatsApp +91 87122 87999 or e-mail info@javitatech.com.
- ♦ **Certificate.** Issued after you attend the sessions, complete the scheduled assignments and pass the final scenario assessment. Interview, resume and certification guidance are part of the course. Placement referral is separate and optional — we share your profile only for a role you agree to — and there is no job guarantee.

♦ FAQ

Questions students usually ask

♦ **When does the batch start?**

Batch and free-demo dates are announced first on the JavitaTech WhatsApp channel and on javitatech.com. Message us on WhatsApp and we will share the next dates.

♦ **I have never worked on SAP. Can I join?**

Yes — this course starts from what SAP is. You need basic programming logic from any language, nothing more. Attend the three free demo sessions and decide. Beginners take Course 1 before Course 2.

◆ **What if I miss a session?**

Every session is recorded and added to your course portal within a day. Watch it, and bring your questions to the next live session's question time.

◆ **Do I need my own SAP system?**

Hands-on practice needs an S/4HANA on-premise system with SAP GUI and Eclipse ADT. Practice-system requirements and access arrangements will be confirmed before paid enrolment. Additional cloud services, AI subscriptions, Adobe Document Services, external systems and extra clients are not included — those topics are taught as walkthroughs or overviews. If your employer permits it and gives you an S/4HANA system with equivalent developer capabilities, you can use it.

◆ **What computer do I need?**

A laptop with 8 GB RAM minimum (16 GB recommended for Eclipse ADT) and a stable internet connection. Windows is recommended: SAP GUI for Windows, the graphical Screen Painter and some classic form tools are Windows-dependent. On macOS, Eclipse ADT runs natively and SAP GUI for Java covers most transactions with some limitations; a Windows virtual machine is the safest option for the full toolset.

◆ **How are doubts handled?**

Ask them live — every session ends with question time. Academic questions are answered during the live sessions only; for admin help (access, recordings, payments), message JavitaTech on WhatsApp.

◆ **Which topics are hands-on and which are walkthroughs?**

Core ABAP, Dictionary, SQL, reports and SALV, background-job scheduling, debugging, ABAP Objects, exceptions, ABAP Unit, standard enhancement examples, CDS, AMDP, SmartForms and basic Gateway OData development are hands-on on the practice system. Editable ALV Grid, application log and change documents, Adobe Forms, workflow, cross-system interfaces, the Migration Cockpit, custom-code migration tooling and MCP-based AI agents are code/configuration walkthroughs, and Joule, key user extensibility, the Code Vulnerability Analyzer, AIF and Integration Suite are conceptual overviews. The day-wise plan labels every session.

◆ **Do you provide placements?**

Interview preparation is part of the course: three interview-preparation sessions, cohort mock interviews, resume and LinkedIn review, SAP certification guidance and four projects to discuss. Placement referral is separate and optional: we share your profile only for a role you agree to. No job guarantee.

◆ **Will I get a certificate?**

Yes — the JavitaTech Certificate of Completion, after you clear the final scenario assessment. It is a JavitaTech training credential; official SAP certification exams are conducted separately by SAP, and Session 61 shows you how to prepare for them.

◆ **What about the fee and refunds?**

The fee is shared on WhatsApp (GST-inclusive) and can be paid in full or as 50% at enrolment with the balance within 20–25 days of your first paid session. Refund requests are accepted within 2 days of your first paid session; 15% of the total course fee is non-refundable if you withdraw. If JavitaTech cancels a batch, all fees paid are refunded in full, including the 15%. Full terms: javitatech.com → Cancellation & Refund.

◆ **What comes after this course?**

Course 2 — SAP ABAP Cloud / RAP with Fiori — is your direct upgrade: transactional RAP business objects, draft and EML, OData V4 and Fiori Elements application development, clean-core extension patterns and BTP development foundations, with targeted revision built in. Beginners take Course 1 first; separate batches may run at the same time, but we do not encourage taking both simultaneously. Plan the sequence with us on WhatsApp. SAP Integration Suite (CPI) and SAP AI are future learning directions outside this enrolment.



♦ ENROL OR ASK ANYTHING

One message is all it takes to start.

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WHATSAPP CHANNEL

whatsapp.com/channel/0029VbDTBjI77qVSekFFV50F — batch
and free-demo dates are announced here first

Tell us which course you want to start with — Course 1: SAP ABAP on S/4HANA (recommended for beginners), or Course 2: SAP ABAP Cloud / RAP with Fiori (for developers who already have Course 1-level foundations) — and the JavitaTech team will share the next free-demo dates, timings and the fee.

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