



SAP AI — Complete Course Content

WC Skills • World Class Skills Institute

Duration	8 Weeks
Target Audience	SAP professionals exploring enterprise AI and Joule
Prerequisites	Basic SAP/cloud concepts; AI fundamentals helpful.

What this document contains

A module-wise training roadmap covering concepts, hands-on labs, project work, assessment checkpoints and interview preparation. The syllabus is designed as a structured course plan for classroom or live-online delivery.

Course Objectives & Learning Outcomes

By the end of this course, learners should be able to explain the core concepts, perform the practical tasks listed in the labs, troubleshoot common scenarios, document their work and complete the capstone with a professional implementation approach.

- Understand the architecture, terminology and end-to-end workflow of the subject.
- Perform guided hands-on exercises using the relevant tools and development/administration environment.
- Apply troubleshooting, testing, documentation and best-practice techniques.
- Build a portfolio-ready capstone demonstrating practical competency.
- Prepare for technical interviews with scenario-based questions and implementation discussions.

Detailed Module-wise Curriculum

Module 1: Enterprise AI Foundations

- Generative AI concepts
- Predictive vs generative AI
- Enterprise data challenges
- Responsible AI
- SAP Business AI overview

Hands-on Lab: Lab: identify AI use cases in an SAP process.

Module 2: SAP Business AI & Joule

- Joule concepts
- Embedded AI scenarios
- Business context
- Prompting fundamentals
- Human-in-the-loop

Hands-on Lab: Lab: design prompts for a business workflow.

Module 3: BTP AI Capabilities

- AI services overview
- Generative AI hub concepts
- Model access
- Security
- Application integration

Hands-on Lab: Lab: sketch an AI-enabled BTP architecture.

Module 4: Prompt Engineering

- Prompt structure
- Context and constraints
- Grounding concepts
- Evaluation
- Guardrails

Hands-on Lab: Lab: create and evaluate a prompt set.

Module 5: AI with Business Data

- RAG concepts
- Embeddings awareness
- Data privacy
- Retrieval quality
- Evaluation

Hands-on Lab: Lab: design a grounded enterprise assistant.

Module 6: Automation & Integration

- AI agents awareness
- APIs
- Workflow integration
- Human approvals
- Monitoring

Hands-on Lab: Lab: map an AI-assisted approval process.

Module 7: Governance & Security

- Responsible AI
- Data protection
- Access control
- Logging
- Risk assessment

Hands-on Lab: Lab: create an AI governance checklist.

Module 8: Capstone

- Use-case selection
- Prototype
- Evaluation
- Business case
- Presentation

Hands-on Lab: Lab: present an enterprise AI solution.

Practical Delivery Plan

Phase	Focus	Expected Evidence
1	Concept + demonstration	Notes, diagrams and guided exercises
2	Hands-on practice	Working configuration/code and screenshots/logs
3	Troubleshooting	Issue reproduction, diagnosis and resolution notes
4	Mini project	Functional solution with test cases
5	Capstone	End-to-end project, documentation and presentation

Assessment & Certification Readiness

Recommended assessment pattern: module quizzes (20%), practical labs (30%), mini project (20%), capstone (20%) and interview/viva (10%). Completion certificates, placement support and any certification claims should follow the institute's current published policy and the relevant vendor's certification rules.

Capstone Requirements

- Problem statement and scope
- Architecture/process diagram
- Implementation or configuration
- Test cases and results
- Troubleshooting notes
- User/technical documentation
- Final presentation and interview questions

Interview Preparation Topics

Learners should be able to answer architecture questions, explain the difference between key concepts, troubleshoot a real scenario, justify design choices, discuss performance/security considerations and walk through the capstone from requirement to deployment/support.

Recommended Learning Resources

Use official product documentation and current vendor guidance for version-specific commands, configuration steps and certification requirements. Validate training examples in a non-production environment before applying them to customer systems.