



# SAP BASIS — Complete Course Content

WC Skills • World Class Skills Institute

|                        |                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Duration</b>        | 10 Weeks                                                                                                                |
| <b>Target Audience</b> | Aspiring and working SAP administrators                                                                                 |
| <b>Prerequisites</b>   | Basic Windows/Linux administration, networking concepts and database fundamentals are helpful; SAP experience is a plus |

## 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: SAP Landscape & BASIS Fundamentals

- SAP architecture and three-tier landscape
- SID, client, instance, work processes and profiles
- AS ABAP vs AS Java concepts
- Development, Quality and Production systems
- System copy, refresh and landscape documentation

**Hands-on Lab:** Lab: map a sample SAP landscape and identify instances, clients and system roles.

### Module 2: Installation & System Configuration

- SAP installation concepts and prerequisites
- Kernel, profiles, parameters and environment configuration
- SAP services and start/stop procedures
- SAP Host Agent and common administration utilities
- Post-installation checks and technical documentation

**Hands-on Lab:** Lab: create an administration checklist for a new SAP system.

### Module 3: User & Authorization Administration

- Users, roles, profiles and authorization objects
- SU01, PFCG, SU10 and mass maintenance concepts
- Password, lock and validity management
- Role transport and troubleshooting authorization errors
- Security hygiene and audit-ready documentation

**Hands-on Lab:** Lab: design roles for developer, functional consultant and support user.

### Module 4: Transport Management System

- CTS/TMS architecture and routes
- Transport requests and tasks
- Import queues, buffers and transport logs
- Transport troubleshooting and return codes
- ChaRM/change governance concepts

**Hands-on Lab:** Lab: trace a transport from development through quality to production.

## Module 5: Monitoring & Daily Administration

- SM21, ST22, SM50/SM66 and SM37
- System logs, dumps, locks and update failures
- Background jobs and scheduling
- Workload analysis and basic performance triage
- Daily, weekly and monthly BASIS checklists

**Hands-on Lab:** Lab: diagnose a simulated short dump, failed job and locked user.

## Module 6: Database & SAP HANA Administration

- SAP HANA architecture for BASIS teams
- Backup, recovery and availability concepts
- HANA Cockpit/SQL monitoring overview
- Database growth and housekeeping
- SAP-HANA-to-ABAP connectivity checks

**Hands-on Lab:** Lab: prepare a backup/recovery runbook and database health checklist.

## Module 7: Security, Patching & Operations

- SAP Notes and maintenance planning
- Kernel and support package concepts
- SNC/SSL/TLS fundamentals
- Security monitoring and least privilege
- Planned downtime and rollback planning

**Hands-on Lab:** Lab: build a patch-day checklist with validation and rollback steps.

## Module 8: High Availability, DR & Troubleshooting

- HA/DR concepts and RPO/RTO
- Enqueue and message server concepts
- Failover and recovery procedures
- Common connectivity and performance issues
- Root-cause analysis and incident documentation

**Hands-on Lab:** Lab: write an incident RCA for an unavailable SAP application server.

## 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.