

# SAP HANA TRAINING & CERTIFICATION

## About IntelliPaat

Intellipaate is a global online professional training provider. We are offering some of the most updated, industry-designed certification training programs in the domains of Big Data, Data Science & AI, Business Intelligence, Cloud, Blockchain, Database, Programming, Testing, SAP and 150 more technologies.

We help professionals make the right career decisions, choose the trainers with over a decade of industry experience, provide extensive hands-on projects, rigorously evaluate learner progress and offer industry-recognized certifications. We also assist corporate clients to upskill their workforce and keep them in sync with the changing technology and digital landscape.

## About The Course

This SAP HANA online training from IntelliPaat will ensure that you get a good grasp of SAP HANA fundamentals and learn and deploy real-time analytics. HANA is an on-premise application that is used for gathering real-time insights. In this SAP HANA training, you will learn SAP HANA Studio, modeling, Security features and various other aspects. You will understand why SAP HANA is a fundamentally different database engine upon the completion of this SAP HANA course.

 <b>Instructor Led Training</b> 33 Hrs of highly interactive instructor led training	 <b>Self-Paced Training</b> 30 Hrs of Self-Paced sessions with Lifetime access	 <b>Exercise and project work</b> 30 Hrs of real-time projects after every module	 <b>Lifetime Access</b> Lifetime access and free upgrade to latest version
 <b>24x7 Support</b> Lifetime 24*7 technical support and query resolution	 <b>Get Certified</b> Get global industry recognized certifications	 <b>Job Assistance</b> Job assistance through 80+ corporate tie-ups	 <b>Flexi Scheduling</b> Attend multiple batches for lifetime & stay updated.

## Why take this Course?

SAP HANA is one of those platforms that will find much demand from enterprises around the world due to its result-oriented approach to getting work done. This SAP HANA certification training course gives you hands-on experience and knowledge in one of the most sought-after technologies in the cloud, Big Data and Analytics environments. This SAP HANA training is your road to grabbing

high-paying jobs in the technology industry.

This IntelliPaat SAP HANA admin and operations course which has been designed by the industry will give you hands-on experience in working with this tool to land your dream job in top MNCs around the world that are deploying SAP HANA.

## Course Content

1. Approaching SAP HANA
2. Introduction to HANA Studio
3. SAP HANA Modelling
4. Calculation Views (GUI)
5. Analytic Privileges
6. In-depth Modeling
7. Modeling (Cont.)
8. Full Text Search
9. Data Provisioning
10. Data Provisioning (Cont.)
11. ABAP programming for SAP HANA
12. Accessing data stored in SAP HANA
13. Sap HANA cloud –Modelling
14. Sap HANA cloud – Anlyatica View
15. Sap HANA cloud Extraction Of Data
16. Advanced Topics

## Approaching SAP HANA

- ❖ Introduction to In-Memory Computing – Fundamentals of SAP HANA,
- ❖ What SAP HANA Can do, What SAP HANA Can't do.
- ❖ High Performance functionalities in SAP HANA – In-Memory computing, Columnar store database, Massive Parallel Processing, Data Compression.
- ❖ SAP HANA for Non-SAP Use Cases – SAP HANA for Non – SAP Analytics, SAP HANA for Non-SAP Applications.
- ❖ SAP HANA Database Architecture, SAP HANA Landscapes and Scenarios.

## Introduction to HANA Studio

- ❖ Add SAP HANA System – Perspectives, Administration, Modeling, Development Plan Viz. Folders- Catalog, Content, Provisioning, Security.
- ❖ SAP HANA Database SQL Script – HANA Database SQL Basics, types of statements, data types, operators, expressions, basic query execution, Sub-query, Joins, Expressions, Loops, Sub-queries.
- ❖ Catalog – Schema, Table, Views, Functions, Stored Procedures, Index, Synonyms, Sequences, Triggers. Provisioning – SDA [Smart Data Access].
- ❖ Security – Users, Roles.

## SAP HANA Modelling

- ❖ Introduction – Types of Models, Attribute Views, Joins, Using Filter Operations, Creating Restricted & Calculated Columns, Using Hierarchies.
- ❖ Analytic Views – Star Schema design, Multi-Dimensional modeling, Using Variables, Using Input parameters, Advantages & Limitations.

## Calculation Views (GUI)

- ❖ Dimension Calculation View – Star Join Calculation view, OLTP Calculation view, Using Projection, Using Join, Using Aggregation, Using Union, Using Rank.
- ❖ Calculation Views (Scripted) – CE functions Introduction, Creating Content Procedure.

## Analytic Privileges

- ❖ Classical Analytic Privileges, SQL Analytic Privileges, Dynamic analytic Privileges.
- ❖ Turning Business Rules into Decision tables. Table Functions.

## In-depth Modeling

- ❖ Union Pruning, Refactoring information models, Schema Mapping, Propagate to schematics, Show Lineage, Find Where used, Schema Mapping, Generating Time Data.

## Modeling (Cont.)

- ❖ Using Time Travel, Migrating deprecated Information models, Using Currency Conversion. Web based Modeling Work bench.
- ❖ Advanced HANA SQL script - Temporary tables, Triggers, Exceptions Handling.

## Full Text Search

- ❖ Overview, Datatypes & full text Indexes, Using Full text search.
- ❖ Application Life Cycle Management – Transport Using Developer mode, Transport Using Delivery Unit mode, Change management.
- ❖ Analyzing Query Performance- Explain Plan, Visualize plan, Performance trace.

## Data Provisioning

- ❖ Data Provisioning – Data provisioning using SLT, Data Acquisition with BODS, Data Provisioning with Flat File upload

## Data Provisioning (Cont.)

- ❖ Data Provisioning using Direct, Extractor Connection, Security and Authorizations, Introduction to Lumira, Using Lumira Prepare, Visualize compose data.

## ABAP programming for SAP HANA

- ❖ How SAP HANA affects the ABAP development process
- ❖ Introducing the ABAP development tools (ABAP in Eclipse)
- ❖ How to take ABAP to HANA
- ❖ Using SAP HANA as a secondary database
- ❖ The various issues in performance and functional aspects encountered in SAP HANA migration
- ❖ Understanding the ABAP Test Cockpit, Code Inspector, Profiler, Trace and SQL Trace
- ❖ Improving the performance with SQL performance tuning and monitoring
- ❖ Guidelines and rules when deploying ABAP for SAP HANA

## Accessing data stored in SAP HANA

- ❖ What is New Open SQL, definition of advanced views by deploying Core Data Services in ABAP,
- ❖ Creating CDS associations, how to implement authorization checks using CDS with ABAP, SAP HANA Objects in ABAP,
- ❖ How to consume SAP HANA views using ADBC (ABAP Database Connectivity) and native SQL in ABAP, using the ADBC and native SQL to consume SAP HANA database procedures.

## Sap HANA cloud -Modelling

- ❖ Core Modelling, Schema : Space in Memory, Table : Data Storage, Loading Sample.

## Sap HANA cloud – Analytical View

- ❖ Advance Modelling, Attribute View, Analytical View, Calculation View

## Sap HANA cloud Extraction Of Data

- ❖ SLT : Sap Landscape Transformation, Real Time Replication Data Process
- ❖ BODS : Business Object Data Services-> Extraction Transformation Loading
- ❖ DXC : Direct Extractor Connector: SAP BW or DW
- ❖ SDA : Smart Data Access : Remotely Virtual Table
- ❖ SDI : ETL Virtua in to PYS

## Advanced Topics

- ❖ SAP HANA Dynamic tiring, Delta Merge, SDI [Smart Data Integration]
- ❖ SAP HANA has Application Platform, SAP HANA cloud, L Procedures, R Procedures, Partitioning of tables, Introduction to AFL, PAL, BFL

## Project Work

**Project 1:** Building COPA model using HANA analytical view

**Industry :** General

**Problem Statement :** How to work with the COPA data model and successfully do the reporting

**Topics :** This SAP HANA projects lets you work with the SAP HANA COPA (Controlling and Profitability Analysis) to evaluate the market segments and classify them according to the products, customers or any combination of it. The aim is to provide the sales, marketing, product management and corporate planning with information for supporting the internal accounting and decision-making.

**Highlights :**

- ✓ Building of COPA data models
- ✓ Creating detailed Reports
- ✓ Account-based valuation approach

**Project 2:** Working with large datasets by building HANA data models

**Industry :** General

**Problem Statement :** How to make the most of an organization's data assets and gain competitive advantage

**Topics :** In this project you will be working on enterprise dataset for helping an organization to increase revenue, reduce cost and reduce risk through better business decision-making. The business has outlets in different countries and sales are done for different items, and also promotion of business is done in different modes. The Referential Integrity is maintained with the tables/dataset files.



**Highlights :**

- ✓ Loading the excel files to schema/tables
- ✓ Replicating and loading the tables
- ✓ Build dashboard and story board with SAP Lumira.

**Project 3:** Implementing a sales project with SAP HANA Calculation View

**Industry :** General

**Problem Statement :** How to build the sales model using Calculation View in HANA

**Topics :** In this SAP HANA project you will link TSPA which is a standard SAP Table for storing the Organizational Unit: Sales Divisions information. This is available within R/3/ECC SAP systems depending on the version and release level. You will also link the Customer, Material, Sales Org, Sales-Vision Calculation views in order to create Sales Billing CA view.

**Highlights :**

- ✓ Deploying SAP HANA Calculation View
- ✓ Star Join on a Fact Table
- ✓ SAP HANA Organizational Unit

**Project 4 :** Develop reports using SAP HANA

**Dataset :** Sales

This project is involved with creation of reports using SAP HANA. You will get in-depth understanding of creating SAP HANA reports with SAP Business Objects explorer, learning to deploy different SAP HANA views like attribute, analytic and calculation views, understanding how to create SAP HANA Crystal Report, deploying MDX Provider for connecting HANA system to Excel data, data modeling techniques. Upon completion of the project you will gain expertise to develop reports from multiple data sources and view it to glean valuable insights.

## Job Assistance Program

Intellipaat is offering job assistance to all the learners who have completed the training. You should get a minimum of 60% marks in the qualifying exam to avail job assistance. Intellipaat has exclusive tie-ups with over 80 MNCs for placements.



Successfully finish the training

Get your resume updated

Start receiving interview calls

## Intellipaat Alumni Working in Top Companies



**Sridhar Mani**

IT Operations Manager



I wanted to learn about SAP HANA admin and operations and the Intellipaat training checked all the right boxes to help me master this domain.



**Samuel Taylor**



The training videos for Intellipaat SAP HANA administration and operations were very helpful. Since it was created by experienced trainers it was in line with the needs of the industry.

*Jai*

**Jai Singh**



I appreciate the Intellipaat support team and their knowledge. I found that whatever doubts I had regarding the domain of SAP HANA admin and operations, it was cleared by the support team with the promised time.

[More Customer Reviews](#)

## Our Clients

ERICSSON 

CISCO

Mu Sigma

SONY

TATA CONSULTANCY SERVICES

Standard Chartered 

Cognizant

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Transformation Happens Here

**+80 Corporates**

## Frequently Asked Questions

### Q 1. What is the criterion for availing the IntelliPaat job assistance program?

Ans. All IntelliPaat learners who have successfully completed the training post April 2017 are directly eligible for the IntelliPaat job assistance program.

### Q 2. Which are the companies that I can get placed in?

Ans. We have exclusive tie-ups with MNCs like Ericsson, Cisco, Cognizant, Sony, Mu Sigma, Saint-Gobain, Standard Chartered, TCS, Genpact, Hexaware, and more. So you have the opportunity to get placed in these top global companies.

### Q 3. Do I need to have prior industry experience for getting an interview call?

Ans. There is no need to have any prior industry experience for getting an interview call. In fact, the successful completion of the IntelliPaat certification training is equivalent to six months of industry experience. This is definitely an added advantage when you are attending an interview.

### Q 4. If I don't get a job in the first attempt, can I get another chance?

Ans. Definitely, yes. Your resume will be in our database and we will circulate it to our MNC partners until you get a job. So there is no upper limit to the number of job interviews you can attend.

### Q 5. Does IntelliPaat guarantee a job through its job assistance program?

Ans. IntelliPaat does not guarantee any job through the job assistance program. However, we will definitely offer you full assistance by circulating your resume among our affiliate partners.