# Typographic Conventions

American English is the standard used in this handbook. The following typographic conventions are also used.

| **This information is displayed in the instructor’s presentation** |
| **Demonstration** |
| **Procedure** |
| **Warning or Caution** |
| **Hint** |
| **Related or Additional Information** |
| **Facilitated Discussion** |
| **User interface control** |
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TARGET AUDIENCE
This course is intended for the following audiences:

- Systems Architect
- Application Consultant
- Development Consultant
- Technology Consultant
- Support Consultant
- Data Consultant
- Database Administrator
- Technology Consultant
Lesson 1: Introducing SAP HANA
Lesson Objectives
After completing this lesson, you will be able to:
- Describe SAP HANA

Lesson 2: Understanding SAP HANA Implementation Scenarios
Lesson Objectives
After completing this lesson, you will be able to:
- Understand SAP HANA implementation scenarios

Lesson 3: Outlining Security Functions
Lesson Objectives
After completing this lesson, you will be able to:
- Outline the security functions in SAP HANA

Lesson 4: Describing Security Administration Tools
Lesson Objectives
After completing this lesson, you will be able to:
- Describe the security administration tools
Lesson 1: Describing Communication Channels

Lesson Objectives
After completing this lesson, you will be able to:

• Describe SAP HANA communication channels

Lesson 2: Securing Data Communications

Lesson Objectives
After completing this lesson, you will be able to:

• Recognize the options to secure data communications in SAP HANA
Lesson 1: Describing Certificate Management in SAP HANA

Lesson Objectives
After completing this lesson, you will be able to:

- Describe in-database certificate management workflow
- Manage client certificates and certificate collections in SAP HANA
Lesson 1: Describing Data-at-Rest Encryption

Lesson Objectives
After completing this lesson, you will be able to:

- Describe data-at-rest encryption options in SAP HANA
- Manage data-at-rest encryption
Lesson 1: Understanding Object Ownership

Lesson Objectives
After completing this lesson, you will be able to:

- Understand object ownership effects
Lesson 1: Comparing User Types
Lesson Objectives
After completing this lesson, you will be able to:
• Compare the different user types in SAP HANA

Lesson 2: Describing User Administration Tools
Lesson Objectives
After completing this lesson, you will be able to:
• Understand which tools are available for user management tasks

Lesson 3: Understanding User Groups
Lesson Objectives
After completing this lesson, you will be able to:
• Understand user groups in SAP HANA
Lesson 1: Understanding Authentication and Single Sign-On Mechanisms

Lesson Objectives
After completing this lesson, you will be able to:

- Recognize the different authentication mechanisms available in SAP HANA
Lesson 1: Introducing Application Development Tools

Lesson Objectives
After completing this lesson, you will be able to:

• Explain application development tools for SAP HANA XS advanced

Lesson 2: Describing the Multi-Target Application

Lesson Objectives
After completing this lesson, you will be able to:

• Explain what a multi-target application is

Lesson 3: Using the CDS Entity

Lesson Objectives
After completing this lesson, you will be able to:

• Create a CDS entity that is a table in the database
Lesson 1: Introducing SAP HANA Repository (optional)

Lesson Objectives
After completing this lesson, you will be able to:

• Describe the SAP HANA Repository
Lesson 1: Describing Authorization in SAP HANA

Lesson Objectives
After completing this lesson, you will be able to:

- Describe the basic authorization entities in SAP HANA

Lesson 2: Describing Privileges

Lesson Objectives
After completing this lesson, you will be able to:

- Understand the different type of privileges and their usage

Lesson 3: Managing Roles

Lesson Objectives
After completing this lesson, you will be able to:

- Define, create, and manage roles

Lesson 4: Describing Analytic Privileges in XS Classic (optional)

Lesson Objectives
After completing this lesson, you will be able to:

- Understand the Analytic Privileges

Lesson 5: Understanding Cross-Database Authorizations in Tenant Databases

Lesson Objectives
After completing this lesson, you will be able to:

- Understand cross-database authorization between tenant databases

Lesson 6: Describing Data Masking
Lesson Objectives
After completing this lesson, you will be able to:

- Describe how dynamic data masking works in SAP HANA

Lesson 7: Describing Anonymization
Lesson Objectives
After completing this lesson, you will be able to:

- Explain what anonymization is

Lesson 8: Describing LDAP Group Authorization
Lesson Objectives
After completing this lesson, you will be able to:

- Describe LDAP Group authorization functionality in SAP HANA

Lesson 9: Setting up and Analyzing an Authorization Trace
Lesson Objectives
After completing this lesson, you will be able to:

- Set up and analyze authorization traces
Lesson 1: Viewing Information about Users and Authorizations

Lesson Objectives
After completing this lesson, you will be able to:

• View information about users and authorizations
Lesson 1: Using Audit Logging

Lesson Objectives
After completing this lesson, you will be able to:

- Use audit logging
Lesson 1: Describing SAP HANA Extended Application Services Security and Application Privileges (optional)

Lesson Objectives
After completing this lesson, you will be able to:

- Describe SAP HANA extended application services security aspects and use application privileges
Lesson 1: Describing SAP HANA Extended Application Services, Advanced Model Security

Lesson Objectives
After completing this lesson, you will be able to:

- Describe SAP HANA extended application services, advanced model (XSA)
Lesson 1: Understanding SAP BW Models in SAP HANA

Lesson Objectives
After completing this lesson, you will be able to:

• Understand the basics of SAP BW model generation in SAP HANA
Lesson 1: Understanding Authentication Options and User Management Implications for the Integration of SAP BusinessObjects BI 4.X and SAP HANA (optional)

Lesson Objectives
After completing this lesson, you will be able to:

- Understand authentication options and user management implications for the integration of SAP BusinessObjects BI 4.X and SAP HANA
Lesson 1: Describing SAP HANA with ERP or SAP S/4HANA and the Analytics Authorization Assistant (optional)

Lesson Objectives
After completing this lesson, you will be able to:

- Describe different scenarios for SAP HANA with ERP or SAP S/4HANA
- Describe the Analytics Authorization Assistant (AAA)
Lesson 1: Outlining SAP GRC Integration for Governance, Risk and Compliance (optional)

Lesson Objectives
After completing this lesson, you will be able to:

• Outline the integration options with SAP Access Control
Lesson 1: Understanding SAP Identity Management Integration (optional)

Lesson Objectives
After completing this lesson, you will be able to:

- Understand possible integrations with SAP Identity Management