

S4D400

Basic ABAP Programming

COURSE OUTLINE

Course Version: 24

Course Duration:

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Development Consultant
- Developer

Lesson 1: Preparing the Development Environment

Lesson Objectives

After completing this lesson, you will be able to:

- Create an ABAP Cloud project

Lesson 2: Taking a First Look at ABAP

Lesson Objectives

After completing this lesson, you will be able to:

- Work with a development object

Lesson 3: Understanding Software Structure and Logistics

Lesson Objectives

After completing this lesson, you will be able to:

- Create an ABAP package

Lesson 4: Developing Your First ABAP Application

Lesson Objectives

After completing this lesson, you will be able to:

- Create a 'Hello World' application

Lesson 1: Understanding the Basics of ABAP

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the evolution of ABAP
- Describe the basics of ABAP syntax

Lesson 2: Working With Basic Data Objects and Data Types

Lesson Objectives

After completing this lesson, you will be able to:

- Declare data objects
- Assign values

Lesson 3: Processing Data

Lesson Objectives

After completing this lesson, you will be able to:

- Perform arithmetic calculations
- Apply string processing

Lesson 4: Using Control Structures in ABAP

Lesson Objectives

After completing this lesson, you will be able to:

- Implement conditional branching
- Handle Exceptions
- Implement Iterations

Lesson 5: Working with Simple Internal Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Define simple internal tables
- Process data using simple internal tables

Lesson 6: Debugging an ABAP Program

Lesson Objectives

After completing this lesson, you will be able to:

- Enter debugging mode
- Control the execution of code
- Analyze the content of data objects

Lesson 1: Defining a Local Class

Lesson Objectives

After completing this lesson, you will be able to:

- Define a local class inside a global class

Lesson 2: Creating Instances of a Class

Lesson Objectives

After completing this lesson, you will be able to:

- Create Instances of an ABAP Class

Lesson 3: Defining and Calling Methods

Lesson Objectives

After completing this lesson, you will be able to:

- Define and call methods

Lesson 4: Using Encapsulation to Ensure Consistency

Lesson Objectives

After completing this lesson, you will be able to:

- Explain encapsulation
- Define and use constructors

Lesson 1: Investigating a Table Definition

Lesson Objectives

After completing this lesson, you will be able to:

- Investigate a table definition

Lesson 2: Implementing Basic SELECT Statements

Lesson Objectives

After completing this lesson, you will be able to:

- Describe basic features of ABAP SQL
- Read single values from the database

Lesson 3: Working with CDS View

Lesson Objectives

After completing this lesson, you will be able to:

- Analyze a CDS view definition
- Read data using a CDS view

Lesson 1: Declaring a Structured Data Object

Lesson Objectives

After completing this lesson, you will be able to:

- Declare a structured data object

Lesson 2: Working with Structured Data Objects

Lesson Objectives

After completing this lesson, you will be able to:

- Work with structured data objects
- Use structured data objects in ABAP SQL

Lesson 1: Declaring a Complex Internal Table

Lesson Objectives

After completing this lesson, you will be able to:

- Declare a complex internal table

Lesson 2: Working with Complex Internal Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Fill complex internal tables with data
- Access the content of complex internal tables
- Use complex internal tables in ABAP SQL

Lesson 1: Analyzing a Business Object

Lesson Objectives

After completing this lesson, you will be able to:

- Analyze a business object

Lesson 2: Using the Entity Manipulation Language

Lesson Objectives

After completing this lesson, you will be able to:

- Implement an EML statement

Lesson 1: Introducing the Programming Model

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the process to develop an OData service with the ABAP RESTful application programming model

Lesson 2: Exploring the Architecture

Lesson Objectives

After completing this lesson, you will be able to:

- Create a database table
- Generate the development objects for an OData UI service

Lesson 3: Adding ABAP logic

Lesson Objectives

After completing this lesson, you will be able to:

- Implement the behavior of a Business Object

Lesson 4: Improving the User Experience

Lesson Objectives

After completing this lesson, you will be able to:

- Arrange fields in the app
- Provide input help

S4D401

Intermediate ABAP Programming

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Development Consultant
- Developer

Lesson 1: Improving Code Quality using ABAP Test Cockpit

Lesson Objectives

After completing this lesson, you will be able to:

- Create ATC check variants
- Perform static code checks with ATC

Lesson 2: Implementing Code Tests with ABAP Unit

Lesson Objectives

After completing this lesson, you will be able to:

- Implement a test class
- Run an ABAP unit test

Lesson 3: Measuring Runtime Consumption with ABAP Profiling

Lesson Objectives

After completing this lesson, you will be able to:

- Profile an ABAP program
- Detect sequential reads using ABAP Profiling

Lesson 4: Analyzing Database Access with SQL Trace

Lesson Objectives

After completing this lesson, you will be able to:

- Start the SQL trace
- Analyze SQL trace results

Lesson 1: Classifying Technical Data Types in ABAP

Lesson Objectives

After completing this lesson, you will be able to:

- Classify technical data types in ABAP

Lesson 2: Avoiding the Pitfalls of Type Conversions

Lesson Objectives

After completing this lesson, you will be able to:

- Avoid the pitfalls of type conversions

Lesson 3: Calculating with Dates, Times, and Timestamps

Lesson Objectives

After completing this lesson, you will be able to:

- Calculate with dates, times, and timestamps

Lesson 1: Using Translatable Text in ABAP

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the translation process for ABAP developments
- Use text elements for making developments translatable

Lesson 2: Processing Strings Using Functions and Regular Expressions

Lesson Objectives

After completing this lesson, you will be able to:

- Describe built-in string functions in ABAP
- Work with built-in string functions in ABAP
- Explain the use of regular expressions in ABAP

Lesson 1: Implementing Joins

Lesson Objectives

After completing this lesson, you will be able to:

- Implement joins
- Differentiate between inner joins and outer joins
- Implement nested joins

Lesson 2: Working with Expressions in ABAP SQL

Lesson Objectives

After completing this lesson, you will be able to:

- Use some simple expressions in ABAP SQL

Lesson 3: Performing Calculations and String Processing in ABAP SQL

Lesson Objectives

After completing this lesson, you will be able to:

- Perform calculations on the database
- Perform string processing on the database

Lesson 4: Using Special Built-in Functions in ABAP SQL

Lesson Objectives

After completing this lesson, you will be able to:

- Process dates, times, and timestamps on the database
- Use built-in conversions functions

Lesson 5: Sorting and Condensing Data Sets in ABAP SQL

Lesson Objectives

After completing this lesson, you will be able to:

- Request sorted result sets from the database
- Retrieve condensed and aggregated data sets

Lesson 1: Processing the Contents of Internal Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Process the contents of an internal table

Lesson 2: Using Field Symbols to Process Internal Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Process internal tables using field symbols

Lesson 3: Working with Sorted and Hashed Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Work with sorted and hashed tables

Lesson 4: Improving Internal Table Performance Using Secondary Keys

Lesson Objectives

After completing this lesson, you will be able to:

- Improve internal table performance using secondary keys

Lesson 1: Describing the Authorization Concept in ABAP

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the authorization concept in ABAP

Lesson 2: Using CDS Access Controls

Lesson Objectives

After completing this lesson, you will be able to:

- Use CDS access controls

Lesson 3: Using the AUTHORITY-CHECK Statement

Lesson Objectives

After completing this lesson, you will be able to:

- Use the AUTHORITY-CHECK statement

Lesson 1: Implementing Inheritance

Lesson Objectives

After completing this lesson, you will be able to:

- Implement a specialized class

Lesson 2: Using Inheritance

Lesson Objectives

After completing this lesson, you will be able to:

- Use inheritance

Lesson 3: Defining Interfaces

Lesson Objectives

After completing this lesson, you will be able to:

- Define interfaces

Lesson 4: Using Interfaces

Lesson Objectives

After completing this lesson, you will be able to:

- Use Interfaces

Lesson 5: Implementing Factory Methods

Lesson Objectives

After completing this lesson, you will be able to:

- Use factory methods

Lesson 1: Working with Exception Classes

Lesson Objectives

After completing this lesson, you will be able to:

- Work with exception classes

Lesson 2: Defining Your Own Exception Classes

Lesson Objectives

After completing this lesson, you will be able to:

- Define your own exception classes

Lesson 1: Documenting ABAP Code

Lesson Objectives

After completing this lesson, you will be able to:

- Document ABAP code

S4D430

Data Modeling in ABAP Dictionary and ABAP Core Data Services

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Development Consultant
- Developer

Lesson 1: Exploring ABAP Dictionary

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the basic tasks of the ABAP Dictionary
- Name the most important Dictionary objects

Lesson 2: Exploring ABAP Core Data Services

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the basic tasks of the ABAP Core Data Services
- Name the most important ABAP CDS objects

Lesson 1: Defining Domains and Data Elements

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the use of data elements and domains when defining database tables
- Create domains
- Create data elements

Lesson 2: Creating Database Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Create a table definition
- Edit the field list of a database table
- Maintain additional table properties
- Define and use include structures

Lesson 3: Handling Changes to Database Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the adjustment of database tables
- Adjust direct changes to database tables
- Describe the conversion process for database tables
- Adjust indirect changes to database tables

Lesson 1: Using Dictionary Objects as Data Types

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the use of dictionary objects as data types

Lesson 2: Defining Dictionary Structures

Lesson Objectives

After completing this lesson, you will be able to:

- Define dictionary structures

Lesson 3: Defining Dictionary Table Types

Lesson Objectives

After completing this lesson, you will be able to:

- Define a dictionary table type
- Define a nested table type

Lesson 1: Defining a Basic CDS View

Lesson Objectives

After completing this lesson, you will be able to:

- Create a data definition
- Maintain the FROM clause and element list

Lesson 2: Using ABAP Annotations in CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Use ABAP annotations in CDS views
- Work with translatable texts in CDS

Lesson 3: Building Views on Views

Lesson Objectives

After completing this lesson, you will be able to:

- Define a CDS view that reads from another view
- Control the propagation of element annotations

Lesson 1: Defining Relationships Between Database Tables

Lesson Objectives

After completing this lesson, you will be able to:

- Understand relationships in data models
- Define foreign key dependencies in dictionary tables

Lesson 2: Defining Associations Between CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Define associations
- Expose associations

Lesson 3: Using Associations in Path Expressions

Lesson Objectives

After completing this lesson, you will be able to:

- Use path expressions in CDS views
- Use filter conditions in path expressions
- Use path expressions in ABAP SQL

Lesson 1: Implementing SQL Expressions in CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Motivate the use of code pushdown in CDS Views
- Use SQL expressions in CDS views

Lesson 2: Calling Built-in Functions in CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Use built-in functions in ABAP CDS
- Use session variables

Lesson 3: Defining CDS Views with Input Parameters

Lesson Objectives

After completing this lesson, you will be able to:

- Define CDS views with input parameters
- Provide values for CDS view parameters
- Link parameters to ABAP system fields

Lesson 4: Processing Data Sets in CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the techniques for processing datasets in ABAP CDS
- Use the DISTINCT addition in ABAP CDS views
- Include aggregations and grouping in CDS views
- Use joins and unions in CDS views

Lesson 1: Preventing Unauthorized Access to Data

Lesson Objectives

After completing this lesson, you will be able to:

- Create authorization fields and authorization objects
- Implement CDS access controls

Lesson 2: Extending Dictionary Objects

Lesson Objectives

After completing this lesson, you will be able to:

- Extend dictionary objects using append structures

Lesson 3: Extending CDS Views

Lesson Objectives

After completing this lesson, you will be able to:

- Extend CDS entities using CDS view extensions

Lesson 4: Creating Metadata Extensions

Lesson Objectives

After completing this lesson, you will be able to:

- Extend views using CDS metadata extensions