

# Prerequisites of SAP ABAP Training



# Abap Training Manual

**Dr. Boris Rubarth**



# Abap Training Manual

*SAP ABAP Advanced Cookbook* Rehan Zaidi,2012-01-01 This book is written in simple easy to understand format with lots of screenshots and step by step explanations If you are an ABAP developer and consultant looking forward to build advanced SAP programming applications with ABAP then this is the best guide for you Basic knowledge of ABAP programming would be required

[SAP ABAP Objects](#) Rehan Zaidi,2019-09-27 Understand ABAP objects the object oriented extension of the SAP language ABAP in the latest release of SAP NetWeaver 7 5 and its newest advancements This book begins with the programming of objects in general and the basics of the ABAP language that a developer needs to know to get started The most important topics needed to perform daily support jobs and ensure successful projects are covered ABAP is a vast community with developers working in a variety of functional areas You will be able to apply the concepts in this book to your area SAP ABAP Objects is goal directed rather than a collection of theoretical topics It doesn't just touch on the surface of ABAP objects but goes in depth from building the basic foundation e g classes and objects created locally and globally to the intermediary areas e g ALV programming method chaining polymorphism simple and nested interfaces and then finally into the advanced topics e g shared memory persistent objects You will know how to use best practices to make better programs via ABAP objects

**What You'll Learn** Know the latest advancements in ABAP objects with the new SAP Netweaver system Understand object oriented ABAP classes and their components Use object creation and instance methods calls Be familiar with the functions of the global class builder Be exposed to advanced topics Incorporate best practices for making object oriented ABAP programs

**Who This Book Is For** ABAP developers ABAP programming analysts and junior ABAP developers Included are ABAP developers for all modules of SAP both new learners and developers with some experience or little programming experience in general students studying ABAP at the college university level senior non ABAP programmers with considerable experience who are willing to switch to SAP ABAP and any functional consultants who want or have recently switched to ABAP technical

**First Steps in SAP ABAP - 2nd Edition** Dr.Boris Rubarth,2023-03-25 If you're looking to master SAP ABAP Advanced Business Application Programming this book is your perfect starting point Written in a clear and concise style this guide takes you through the basics of SAP ABAP programming helping you build a strong foundation Many SAP professionals start their careers as programmers and focus on turning functional specifications into technical specifications and writing code Learn how to write your own ABAP code step by step and progressively build your own ABAP application This updated 2nd edition provides you with the tools you need to get started with a job as an SAP ABAP programmer including new information on ABAP Development Tools ADT Step by step instructions for beginners Comprehensive descriptions and code examples A guide to creating your first ABAP application Tutorials that provide answers to the most commonly asked programming questions

**Mastering SAP ABAP** Paweł Grześkowiak,Wojciech

Ciesielski, Wojciech Ćwik, 2019-05-31 Take your SAP ABAP skills to the next level by mastering ABAP programming techniques with the help of real world examples Key Features Become adept at building interfaces and explore ABAP tools and techniques Discover the modern functionalities available in the latest version of ABAP Learn the process of creating stunning HTML5 applications using SAP UI5 Book Description Advanced Business Application Programming ABAP is an established and complex programming language in the IT industry This book is designed to help you use the latest ABAP techniques and apply legacy constructions using practical examples You'll start with a quick refresher on language and database concepts followed by agile techniques for adding custom code to a modern ABAP system After this you will get up to speed with the complete ABAP toolset for importing data to and from different environments Next you'll learn how to print forms and work with the different ABAP tools for Extensible Markup Language XML manipulation While covering further chapters you'll gain insights into building stunning UI5 interfaces in addition to learning how to develop simple apps using the Business Object Processing Framework BOPF You will also pick up the technique of handling exceptions and performing testing in ABAP In the concluding chapters you can look forward to grasping various techniques for optimizing the performance of programs using a variety of performance analysis tools By the end of this book you will have the expertise you need to confidently build maintainable programs in Systems Applications and Products SAP What you will learn Create stable and error free ABAP programs Leverage new ABAP concepts including object oriented programming OOP and Model View Controller MVC Learn to add custom code to your existing SAP program Speed up your ABAP programs by spotting bottlenecks Understand techniques such as performance tuning and optimization Develop modern and beautiful user interfaces UIs in an ABAP environment Build multiple classes with any nesting level Who this book is for This book is for developers who want to learn and use ABAP skills to become an industry expert Familiarity with object oriented programming concepts is expected

*JavaScript Essentials for SAP ABAP Developers* Rehan Zaidi, 2017-06-20 Easily master JavaScript JS with this quick guide and develop mobile and desktop applications for SAP Fiori This book equips ABAP SAP developers with the essential topics to get started with JS The focus of JavaScript Essentials for SAP ABAP Developers is on the parts of the JS language that are useful from the perspective of an ABAP developer The book starts with a brief intro to HTML the basics of JS and how to create and run a simple JS program It then dives into the details of the language showing how to make simple programs It covers loops in detail mathematical operations and string and regular expressions in JS as well as a taste of functions followed by objects and object oriented programming in JavaScript The book provides Sample code and screenshots to help you fully understand JS A chapter on JS best practices and recommendations Differences and comparisons of the elements and data structures of ABAP and JavaScript to help you quickly master the material What You'll Learn Create and run a simple JavaScript program Understand loops operations and expressions Master the Create and Use functions Use objects and object oriented programming in JS Apply the best practices of JS programming Who This Book Is

For SAP programmers and developers ABAP users and developers and university students learning ABAP and JavaScript

**First Steps in ABAP** Dr. Boris Rubarth, A lot of SAP professionals start their careers as programmers and focus on turning functional specifications into technical specifications and writing code First Steps in SAP ABAP Advanced Business Application Programming is the resource that every beginner needs to have You will learn how to write your own ABAP code step by step and progressively build your own ABAP application Step by Step instructions for beginners Comprehensive descriptions and code examples A guide to create your first ABAP application Tutorials that provide answers to the most commonly asked programming questions Get a head start on SAP ABAP This book provides you with the tools you need to get started with a job as an SAP ABAP programmer *SAP ABAP Full Training - Time Is Valuable* Mehmet GÖKTEPE,2021-12-14 SAP ABAP Quick Guide Overview SAP ABAP Environment SAP ABAP Screen Navigation SAP ABAP Basic Syntax SAP ABAP Data Types SAP ABAP Variables SAP ABAP Constants and Literals SAP ABAP Operators SAP ABAP Cycle Control SAP ABAP Decisions SAP ABAP Strings SAP ABAP Date and Time SAP ABAP Formatting Data SAP ABAP Exception Processing SAP ABAP Dictionary SAP ABAP Domains SAP ABAP Data Items SAP ABAP Tables SAP ABAP Structures SAP ABAP Viewing SAP ABAP Search Help SAP ABAP Lock Objects SAP ABAP Modularization SAP ABAP Subdivisions SAP ABAP Macros SAP ABAP Function Modules SAP ABAP Include Programs SAP ABAP Open SQL Overview SAP ABAP Local SQL Overview SAP ABAP Internal Tables SAP ABAP Creating Internal Tables SAP ABAP Filling In Internal Tables SAP ABAP Copying Internal Tables SAP ABAP Reading Internal Tables SAP ABAP Deleting Internal Tables SAP ABAP Object Routing SAP ABAP Objects SAP ABAP Classes SAP ABAP Inheritance SAP ABAP Multifority SAP ABAP Encapsulation SAP ABAP Interfaces SAP ABAP Object Events SAP ABAP Report Programming SAP ABAP Communication Programming SAP ABAP Smart Forms SAP ABAP SAPscripts SAP ABAP Customer Outflows SAP ABAP User Outputs SAP ABAP Business Add ons SAP ABAP Web Dynpro **Introduction to ABAP Programming for SAP** Gareth De Bruyn,Robert Lyfareff,Mark Balleza,Dhruv Kashyap,2015 In this thoroughly updated third edition of INTRODUCTION TO ABAP 4 PROGRAMMING FOR SAP you ll find real world examples that will help you master ABAP the main language used for building solid state business applications in the SAP runtime environment This book contains a learn by doing tutorial with real world business examples for programming in today s most powerful client server environment From the basics of tables displays loops and conditional operators to tuning and troubleshooting techniques to web service calls object orientation or enhancing system performance this tutorial is a must for anyone developing in the SAP environment Whether you ve already spent thousands on official training or learned SAP on your own this book offers comprehensive technical knowledge on reports interfaces data extracts and testing Take control with INTRODUCTION TO ABAP 4 PROGRAMMING FOR SAP THIRD EDITION [Learn ABAP in 1 Day](#) Krishna Rungta,2017-06-28 You do not require much effort to be proficient in SAP ABAP language if you have access to right learning resource With this book you can begin with your first SAP ABAP program in

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*SAP ABAP Sushil Markandeya, Kaushik Roy, 2014-11-17* SAP ABAP Advanced Business Application Programming offers a detailed tutorial on the numerous features of the core programming platform used for development for the entire SAP software suite SAP ABAP uses hands on business oriented use cases and a valuable dedicated e resource to demonstrate the underlying advanced concepts of the OO ABAP environment and the SAP UI SAP ABAP covers the latest version NetWeaver 7 3 and SAP application programming release 6 0 of the platform for demonstrating the customization and implementation phases of the SAP software implementation Void of theoretical treatments and preoccupation with language syntax SAP ABAP is a comprehensive practical one stop solution which demonstrates and conveys the language s commands and features through

hands on examples The accompanying e resource is a take off point to the book SAP ABAP works in tandem with the accompanying e resource to create an interactive learning environment where the book provides a brief description and an overview of a specified feature command showing and discussing the corresponding code At the reader s option the user can utilize the accompanying e resource where a step by step guide to creating and running the feature s object is available The presentation of the features is scenario oriented i e most of the features are demonstrated in terms of small business scenarios The e resource contains the scenario descriptions screen shots detailed screen cams and ABAP program source to enable the reader to create all objects related to the scenario and run execute them The underlying concepts of a feature command are conveyed through execution of these hands on programs Further exercises to be performed independently by the reader are also proposed The demonstration illustration objects including the programs rely on some of the SAP application tables being populated for example an IDES system which is now a de facto system for all SAP training related activities

**Practical Guide to SAP ABAP Part 2: Performance, Enhancements, Transports** Thomas Stutenbäumer, This book offers a comprehensive practical guide to SAP ABAP development for ABAP professionals Part 2 explores program performance authorizations error analysis corrections and SAP Transport Management along with how to tailor SAP applications Dive into performance analysis and get tips on using the performance trace and ABAP runtime analysis Walk through the tools available to enhance standard SAP applications such as the Modification Assistant user exits business add ins BAdIs and the Enhancement Framework Identify techniques for authorization management and find out how SAP ABAP developers can impact data protection Obtain best practices for identifying the cause of application errors Get step by step instructions for transports and learn how to correct errors By using practical examples tips and screenshots the author brings readers up to speed on the fundamentals of SAP ABAP development Developer influence on performance SAP access and account management techniques Modifications and enhancements to SAP standard SAP Transport Management System

Complete ABAP Kiran Bandari,2016-10-30 Immerse yourself in the world of ABAP with this all in one guide Offering instructions for beginners and refreshers for seasoned experts this resource covers everything ABAP Get information on basic programming concepts and tools like data types and the ABAP Data Dictionary and steps for developing interfaces and dynamic programs Packed with 1000 pages on procedural and object oriented programming techniques you ll find the know how you need to code yourself out of any corner In this book you ll learn a ABAP A to Z Discover everything there is to know about ABAP Begin with the basics ABAP keywords syntax tools data types events and more Try your hand at more advanced concepts including user interaction exception handling dialog and dynamic programming among others Finally make it work debug and test b Procedural and Object Oriented Programming Don t limit yourself to one technique Dive into both the procedural and OOP approaches to ABAP c Practice Examples Learn by doing Walk through the numerous examples and follow along using practice code provided throughout the book Highlights Architecture and environment Procedural and

object oriented programming ABAP tools Syntax keywords structures and tables User interaction Modularization Persistent data Dialog and dynamic programming Screens and forms Debugging and testing Interface development Modifications and enhancements

**First Steps in Abap** Boris Rubarth,2013-09-17 A lot of SAP professionals start their careers as programmers and focus on turning functional specifications into technical specifications and writing code First Steps in SAP ABAP Advanced Business Application Programming is the resource that every beginner needs to have Familiarize yourself with general programming principles and Step by Step instructions for beginners Comprehensive descriptions and code examples A guide to create your first ABAP application Tutorials that provide answers to the most commonly asked programming questions Get a head start on SAP ABAP This book provides you with the tools you need to get started with a job as an SAP ABAP programmer

*SAP® ABAP™ Handbook* Kogent Learning Solutions Inc.,2009-10-15 Designed as a comprehensive reference for programmers and SAP users or as review for certification SAP ABAP Handbook includes all the major concepts related to ABAP programming With and easy to follow writing style it begins with an explanation of the SAP ERP system and progresses to the architecture of SAP R 3 to SAP ERP ECC 6 0 A complete glossary of terms is included to help the reader understand the myriad terms and programming issues associated with this language Topics covered include dialogs ABAP dictionary error messages programming in the ABAP Editor Busines Add Ins SAPscript internal tables accessing data in a SAP system modularization techniques and more

**Practical Guide to SAP ABAP Part 1:**

**Conceptual Design, Development, Debugging** Thomas Stutenbäumer, This book offers a comprehensive practical guide to SAP ABAP for ABAP professionals Part I of this two part series lays the groundwork with ABAP basics Readers will learn fundamental methods and procedures for everyday ABAP use for example how to download files from SAP directories to workstations Dive into the SAP Data Dictionary and how it works Get detailed information on effective debugging techniques and how to use the SAP Debugger Clarify when it is best to use standard SAP tables vs Z tables Get expert developer tips and tricks including how to navigate ALV grid lists Understand the documentation programs available to you and how to use them Obtain useful reference lists of SAP transactions and SAP database tables By using practical examples tips and screenshots the author brings readers up to speed on the fundamentals of SAP ABAP How to get the most out of SAP ABAP Guide for understanding and using the SAP Data Dictionary Beginner and advanced debugging techniques Expert ABAP development techniques

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**Interface Programming in SAP ABAP** Boris Rubarth,2018-08-03 Interface programming in SAP ABAP offers a straightforward path into the world of ABAP interfaces This book introduces readers to all relevant classic technologies for system to system communication using ABAP including synchronous and asynchronous techniques Learn how to leverage the RFC protocol to create applications and gain an understanding of how it serves as a foundation for



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SAP/ABAP HANA Programming Sudipta Malakar,2019-09-18 Enrich your skill set with Open SQL and CD5 views

DESCRIPTION The book has been written in such a way that the concepts are explained in detail giving adequate emphasis on examples To provide clarity on the programming examples logic is properly explained and discussed by using comments in program itself The topics covered in this book include starting the software using snapshots of the same and writing programs Simple to complex SAP ABAP HANA examples are provided in detail considering the requirement of IT consultants the basic idea of developing projects in it The examples provided in this book are user focused and are provided through sections figures and examples KEY FEATURES Comprehensive coverage of SAP ABAP HANA with emphasis on real time case studies Practical examples along with Screen personas SAP Fiori cloud OPEN SQL Native SQL ADBC CDS support in SAP NW ABAP 7 4 SP5 SAP HANA Studio performance enabler Rules guidelines Simple language crystal clear approach straight forward comprehensible presentation Concepts are duly supported with examples Topic coverage with the aim to fill the skill gap among industry and academia SAP Business Suite powered by SAP HANA are helpful for developing projects for IT consultants WHAT WILL YOU LEARN Gaining Customers by adopting and implementing SAP HANA in organisations projects programs Facilitating to maintain Customer Relationships as the core of all successful working relationships are two essential characteristics trust and commitment To demonstrate their trustworthiness and commitment to customers progressive suppliers periodically provide evidence to customers of their accomplishments Help in delivering Superior Value and Getting an Equitable Return as understanding value in business markets and doing business based on value delivered gives suppliers the means to get an equitable return for their efforts This document is a compilation of SAP ABAP 4 coding and efficiency standards and will provide guidance in creating readable maintainable code It is intended for all developers in the SAP R 3 system This document is based primarily on ABAP 4 WHO THIS BOOK IS FOR Person from IT domain having software background preferably with SAP technical or techno functional or functional or domain knowledge Table of

Contents 1 Introduction 2 General Programming Standards 3 ABAP Internal Names 4 ABAP 4 Dictionary 5 Security Authorisations considerations 6 ABAP 4 Coding Techniques Object-Oriented Programming with ABAP Objects James Wood, Joseph Rupert, 2015-10-30 There s more to ABAP than procedural programming If you re ready to leap into the world of ABAP Objects or are already there and just need a refresher then this is the book you ve been looking for Thanks to explanations of basic concepts practical examples that show OOP in action and updates for AS ABAP 7 4 you ll find answers to questions you didn t even know you had Clear Conceptual Explanations Master the basics with easy to understand explanations that make coding with classes and objects seem like second nature Practical Examples The best way to learn is by doing Download source code to practice your skills in object cleanup and initialization inheritance polymorphism and more Updates for New Releases and Tools Make sure your skills are up to date with the latest information on how AS ABAP 7 4 will affect your object oriented programming Highlights Working with objects Encapsulation and implementation hiding Object initialization and cleanup Inheritance Polymorphism Component based design Exceptions ABAP Unit ALV object model Object Services BOPF

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