BC490: ABAP Performance Tuning

Course Outline

Course announcements

Gain the knowledge necessary to identify and improve performance issues in ABAP programs. Understand the basics of ABAP related Basis functionality and architecture and learn how to optimize performance in your ABAP applications.

Course Duration

5 Days

Delivery Format

Classroom, Virtual Live Classroom, Hybrid

Course Fee

Contact us for more details

Goals

This course will prepare you to:

- Learn to monitor and analyze the performance of ABAP programs in context with the system resources.
- Learn to optimize database accesses and ABAP processing.
- Learn to work with essential tools like ABAP run time analysis, SQLM and SQL trace, workload analysis, code inspector, etc.
- Learn the basics of SAP Memory Management in context with ABAP programming

Audience

- Developer
- Developer Consultant
- Technology Consultant

Content

- Architecture of SAP NetWeaver Application Server (AS) ABAP
    - Outlining the Architecture of SAP NetWeaver AS ABAP
- Memory Management
    - Identifying Memory Areas
    - Analyzing Memory Allocation
    - Defining the architecture of a work process
    - Analyzing Memory Consumption
    - Analyzing ABAP Reports at Design Time
- Performance Analysis
    - Outlining the Components of a Dialog Step
    - Analyzing the Components of a Dialog Step with Transaction STAD
    - Measuring Times in ABAP Reports
- Database Access
    - Measuring Performance Aspects of a Database
    - Searching for Expensive SQL Statements at Runtime
    - Analyzing Expensive SQL Statements at Runtime
    - Understanding Database Index Access
    - Using Database Indexes
    - Creating Database Indexes
    - Analyzing Previous Database Accesses
- Programming Database Access
    - Accessing Single Database Tables
    - Accessing Multiple Database Tables
    - Describing Performance when Accessing Multiple Database Tables
- Data Buffering
    - Defining Buffering on Database Tables

- Performing Buffering on Database Tables
- Analyzing Table Buffering
- Monitoring the Content of the Table Buffers
- Buffering Data Objects
  - Creating Buffer Modules
  - Using Shared Memory, Shared Buffer and Shared Objects
  - Using ABAP Shared Objects
- Internal Tables
  - Defining Internal Tables
  - Accessing Internal Tables
  - Outlining Advanced Topics with Internal Tables
  - Analyzing ABAP Reports at Runtime
- Remote Function Calls
  - Outlining the Basics of Remote Function Calls (RFC)
  - Analyzing synchronous RFCs
  - Analyzing UI-related RFCs
  - Analyzing asynchronous RFCs