TruQua

Script Logic Bootcamp

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Course Description

This bootcamp covers key concepts, scenarios and common usage cases as well as best practices. The primary focus of the training is six hands-on labs. Each participant will be given a training environment in TruQua's SAP system to work through these labs.

TruQua's Script Logic Bootcamp teaches from a problem-based approach. We believe the best way to learn is for our attendees to get into the system to use the tools themselves and solve problems so they gain a deeper and more nuanced understanding than simply listening to a lecture.

If the attendees are all from a single customer, TruQua can deliver a customer-specific environment for exercises prior (via backup and restore into the TruQua training system at least a week before the workshop) for an additional charge. This will allow attendees to work on an environment identical to their own. The workshop will last for 2 days and can be conducted onsite or offsite. For onsite workshops, the Client is responsible for covering reasonable expenses.

TruQua Script Logic Bootcamp is available for all versions of the SAP BPC product including but not limited to the version for the Microsoft platform, version for SAP NetWeaver and on HANA (7.x and 10.x releases).

Training Schedule
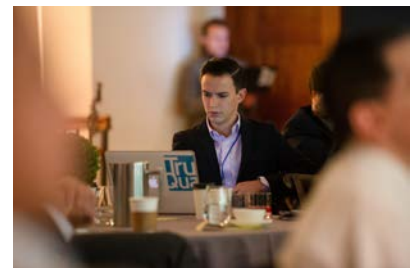
Agenda

Day 1

Time	Session
9:10	Breakfast

101: Introduction to SAP BPC Script Logic

Time	Session
9:40	Greeting and Introduction
10:00	Description and Available Functionality
10:30	Understanding which Script Logic to use
11:00	Login and introduction to business case and SAP BPC environment
12:00	Lunch

101: Script Logic Labs -- Session 1

Time	Session
1:00	Script Logic Account Calculation
2:00	Data Manager Package Integration with Script Logic

102: Script Logic Keywords

Time	Session
2:45	Introduction to Script Logic Keywords
3:30	SAP BPC NetWeaver Keywords
4:00	Introduction to SAP BPC variables
4:30	Cross Model Lookups
4:45	Cross Model Write-back

102: Script Logic Labs -- Session 2

Time	Session
5:00	Intermediate Script Logic
6:00	Break/Q&A

Day 2

Time	Session
9:00	Breakfast

Day 1 Review

Time	Session
9:30	Review/Questions

200: Allocations

Time	Session
10:00	Introduction to Allocations
10:30	Allocations Lab

300: Other Logic Options

Time	Session
11:00	Understanding when to use other SAP BPC Script Logic options
12:00	Lunch
1:00	Knowing when to use ABAP
1:30	Dimension Member Formulas
2:00	Business Rules
2:30	Lab: Business Rules – Cash Flow Calculations

400: Performance

Time	Session
3:15	Performance Analysis of Day1 – Intermediate Lab
3:45	Script Logic Performance Considerations

400: Script Logic Lab: Session 3

Time	Session
4:15	Understanding Script Logic MDX
5:15	Calling ABAP programs, BADIs
5:45	Break/Q&A

Session 101: Introduction to SAP BPC Script Logic

Attendees of this session will learn SAP BPC Script Logic fundamentals as well as the underlying mechanics of the SAP BPC system and the configuration that integrates with Script Logic including:

- SAP BPC data manager packages
- SAP BPC process chains
- How SAP BPC passes variables to Script Logic
- How dimension members (i.e. master data) get selected
- How SAP BPC business rules integrate with Script Logic

Business scenarios and use cases will be provided to illustrate the technical concepts and topics concluding with a hands-on lab exercise. The first lab exercise will consist of writing Script Logic to call an account calculation business rule along with configuring and executing a data manager package to call the Script Logic. Also a review of the data before and after the Script Logic will be illustrated in order to understand how to reconcile the system. The second lab exercise will cover data manager package integration with Script Logic and how to pass variables and use master data selection to create more dynamic scripts.

Session 102: Script Logic Keywords

Attendees of this session will learn specific Script Logic key words commonly used including:

- XDIM_MEMBERSET
- XDIM_FILTER
- XDIM_ADDMEMBERSET
- SELECT
- FOR
- WHEN
- REC
- TMVL
- LOOKUP
- DESTINATION_APP

Business scenarios and use cases will be provided to illustrate the technical concepts and topics. Focus will be on scoping, passing of variables, cross-model lookups and cross-model write backs including tips and tricks and key considerations. The session will conclude with a hands-on lab exercise leveraging a sampling of the Script Logic keywords introduced in this session including a custom currency conversion script. Also a review of the data before and after the Script Logic will be illustrated in order to understand how data records are generated and how to reconcile the system.

Session 200: Allocations

Attendees of this session will learn in detail arguably the most powerful and used Script Logic keyword: RUN_ALLOCATION. A functional decomposition of the RUN_ALLOCATION key word will consist of the following formula components:
- The 'WHAT' variable
- The 'WHERE' variable
- The 'USING' variable
- The 'TOTAL' variable
- The 'FACTOR' variable

While RUN_ALLOCATION is typically used to spread overhead costs to profitability levels of detail, other common uses cases and business scenarios will be described concluding with a hands-on lab exercise. The lab exercise will consist of writing Script Logic to call the RUN_ALLOCATION key word along with configuring and executing a data manager package to call the Script Logic. Also a review of the data before and after the Script Logic will be illustrated in order to understand how to reconcile the system.

Session 300: Other Logic Options

Attendees of this session will understand the limitations of Script Logic and scenarios where other SAP BPC functionality is better suited for application development needs including but not limited to ABAP enhancement and dimension member formulas. Also understand in further depth and detail more complex business rules for financial accounting analysis such as currency conversions and eliminations.

Understand the strengths and weaknesses of the other options including performance impacts. Dimension member formula coverage will include summation logic, hierarchy-based formulas and master-data based considerations. ABAP enhancements coverage will include the BADI framework, the BADIs available (and where the hook into the application) and what gets passed into and out of the BADIs (i.e. importing and exporting parameters, respectively).

Session 400: Performance

Attendees of this session will learn how to analyze the performance of the Script Logic build as part of exercises in Day 1. Learn how to use the Script Logic debugging tool. After analyzing the timing and performance of their own Script Logic, attendees will assess alternative methods to improve performance.

The session will then turn to lecture and explore performance implications of Script Logic constructs typically found in implementations poorly designed including focus on the use of MDX and when to resort to custom enhancements. 6 Training Detail Both MDX and custom developed examples (i.e. either ABAP or T-SQL) will be provided and explained. Key performance concepts include but are not limited to:
- Key scoping considerations
- Avoiding unnecessary lookups
- Minimizing MDX and key considerations
- Commits and the impact to performance
- The use of max members
- Applying parallelization in Script Logic

The session will end with a hands-on exercise in building a Script Logic that utilizes MDX.

About TruQua Enterprises

TruQua is built on the principle that customers deserve **right-sized solutions** through **true quality** TruQua's name comes from the that principle - **Tru**e **Qua**lity

Founded by **Scott Cairncross**, the former head of the SAP Enterprise Performance Management (EPM) Regional Implementation Group (RIG) for Americas and **David Dixon**, a former FI/CO Platinum Consultant at SAP

TruQua is an official **software & services partner** with software engineering expertise to integrate SAP with other solutions and bridge any SAP software gaps

Specialists in **software solutions, project implementations and deployment** strategies for:

- **SAP S/4HANA Finance**
- **SAP Central Finance**
- **SAP Group Reporting**
- **SAP Analytics Cloud**
- **SAP BPC**
- **SAP HANA**

- **SAP BusinessObjects**
- **SAP BW & BW/4HANA**
- **SAP PaPM (FS-PER)**
- **SAP Cloud Platform**
- **SAP Leonardo**
- **Machine Learning**

- **BlackLine**
- **Magnitude Solutions**
- **Vertex Solutions**

Contact Us

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