

AVEVA REPORTS FOR OPERATIONS



COURSE DESCRIPTION

The AVEVA™ Reports for Operations 2020 R2 Course is a 3-day, instructor-led class designed to provide a fundamental understanding of the features and functionality of the AVEVA Reports for Operations software. The course provides lectures, demonstrations, and hands-on labs to supply and reinforce the knowledge necessary to design and generate reports with AVEVA Reports for Operations.

OBJECTIVES

Upon completion of the course, you will be able to

- Create and configure a project
- Connect to System Platform data sources to use as data for reports
- Configure and run reports that include the following features:
 - Templates
 - Single value displays
 - Statistical elements
 - Tables and charts
 - Batch reporting
 - Alarms reports and analysis
 - Dynamic web elements
- Use the web portal to access and generate reports
- Implement security for reporting projects
- Export report elements to Microsoft Excel

AUDIENCE

Individuals who need to design and generate reports using AVEVA Reports for Operations software.

PREREQUISITES

- Industrial automation software concepts
- From the AVEVA Application Server software product:
 - Application Server Galaxy
- From the AVEVA Historian Server software product:
 - Process and alarm historical data

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COURSE OUTLINE

MODULE 1 - INTRODUCTION

- Section 1 – Course Introduction
- Section 2 - AVEVA Reports for Operations Overview
- Section 3 – System Requirements and Licensing

MODULE 2 - PROJECTS AND PROJECT SETTINGS

- Section 1 – Project Creation
 - Lab 1 – Creating a Project and Configuring Communications Drivers

MODULE 3 - REPORTS AND REPORT SETTINGS

- Section 1 – Page and Report Templates
 - Lab 2 – Creating a Report with a Page Template

MODULE 4 - BASIC REPORT ELEMENTS

- Section 1 – Report Elements
 - Lab 3 – Using Basic Reporting Elements
- Section 2 – Defined Time Periods
 - Lab 4 – Using Defined Time Periods
- Section 3 – Advanced SQL Conditions
 - Lab 5 – Using Advanced SQL Conditions

MODULE 5 - TABLE AND CHART ELEMENTS

- Section 1- Table Elements
 - Lab 6 – Using Item and Step Tables
 - Lab 7 – Using Automatic Statistical Tables
 - Lab 8 – Using the SQL Query Table
- Section 2 – Chart and Graph Elements
 - Lab 9 – Using Line and Pie Charts
 - Lab 10 – Using a Bar Graph

MODULE 6 - BATCH REPORTS

- Section 1 – Batch Parameters
 - Lab 11 – Creating Batch Reports

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MODULE 7 - ALARM REPORTING

- Section 1 – Configure and Report Alarms
 - Lab 12 – Displaying Alarm History with the Alarm Table

MODULE 8 - WEB FUNCTIONALITY

- Section 1 – Web Elements and Web-Enabled Reports
 - Lab 13 – Creating Web-Enabled Reports
- Section 2 – Web Portal Features
 - Lab 14 – Using the Web Portal

MODULE 9 - PROJECT SECURITY AND USER MANAGEMENT

- Section 1 – Project Security and User Management
 - Lab 15 – Implementing Security for a Project

APPENDIX A - REPORTS AND MICROSOFT EXCEL

- Section 1 – Excel Format Report Settings
 - Lab A1 – Exporting Report Elements to Microsoft Excel