

# RegPerfect Training Outline

## 1. RegPerfect Design Philosophy

- A. Simplicity/Complexity
- B. SQL Server
- C. Open Microsoft platform standards
- D. Windows Integrated Security

## 2. SQL Server

- A. SQL Server Engine
- B. SQL Server Agent
- C. Enterprise Manager
- D. Query Analyzer

## 3. RegPerfect Database

- A. Tables
  - 1. Configuration Tables (i.e. Tag, \*Definition and RT\* tables)
  - 2. Real-Time Tables (Sample, Calibration, Range Test, Alarm and Reason Action)
  - 3. Open platform – query from Excel
- B. Database Administration - backups and restoring backups
  - 1. RegPerfectDb
  - 2. NT Backup
  - 3. Periodic Re-indexing

## 4. RegPerfect Architecture

- A. RegPerfect Services
  - 1. Service Controller
  - 2. Data Collector
  - 3. Calc Engine
  - 4. Trace Server
  - 5. MS SQL Server Agent
  - 6. SQL Server Agent (a MS SQL Server component)
  - 7. IIS/SMTP
- B. RegPerfect Applications Overview
  - Setup applications
    - 1. Configuration / AdminTester
    - 2. EDR Setup
  - User interface applications
    - 3. Spotlight
    - 4. Alarms
    - 5. Reports
    - 6. Trending
    - 7. Editor

- 8. EDR Generator/EDR Setup
- C. Data Collection and Calculation in RegPerfect
  - 1. Data Collection overview
  - 2. Calc Engine's role
  - 3. Message Queue – viewing data collection and calculation processing

## **5. Spotlight**

- A. Free-style Graphical Displays
  - 1. Creating Displays
  - 2. Modifying Displays
  - 3. Viewing Displays
  - 4. Deployment of Displays

## **6. Alarms**

- A. Setting up alarms
  - 1. Using the Alarm Wizard
  - 2. Filtering alarms
  - 3. Activating alarm notification
  - 4. Responding to alarms
  - 5. Deleting Alarms

## **7. Reports**

- A. Generating Reports
  - 1. SQL Reports overview
  - 2. Setting report parameters
  - 3. Formatting and printing reports
  - 4. Exporting reports
- B. Scheduling Reports
  - 1. Unique Task Name
  - 2. Report Period Normalization and Duration
  - 3. Report output formatting
  - 4. Disk File, Exchange Folder, SMTP Mail destination options
  - 5. Viewing a scheduled report in SQL Server

## **8. Trending**

- A. Types of Trends
  - 1. Single Y-axis
  - 2. Multiple Vertically Stacked Y-axes (Limit Level)
  - 3. Multiple Overlapped Y-axes
  - 4. One Region Overlapped Y-axes
- B. Real-Time Trends vs. Historical Trends
- C. Creating and Modifying Trends

## **9. Editor**

- A. Sample Editor
  - 1. Sample Editor overview
  - 2. Filtering tags
  - 3. Editor views
  - 4. Editing individual records and block editing
  - 5. Recalculating data after editing constants
  - 6. Editor security
- B. Constant Editor
  - 1. Editing constants
  - 2. Recalculating data after editing constants
- C. Calibration Editor
  - 1. Selecting instruments
  - 2. Editing daily calibrations
  - 3. Reassess calibrations
  - 4. Linearity's
- D. Recalculate Request Utility
  - 1. Tag and time-frame selection
  - 2. Recalculating data
  - 3. Reassess Calibrations
- E. Part 60/75 Quality Assurance
  - 1. CGA/Linearity
  - 2. RATA

## **10. EDR Setup**

- A. Record Type Setup
  - 1. Facility Information (RT 100s)
  - 2. Monitoring Plan (RT 500s, RT 556)
  - 3. Process Data (RT 200s)
  - 4. Calculated Data (RT 300s)
  - 5. Certification Information (RT 900)
  - 6. EDR Instructions

## **11. EDR Generator**

- A. Running an EDR
  - 1. Review Data
  - 2. Process Data
  - 3. Calibrations
  - 4. Lock Data
  - 5. Submission Type
  - 6. Start/End Time
  - 7. Submission Interval
  - 8. EDR/File Path
- B. Quality Assurance Data
  - 1. Linearity
  - 2. RATA

3. Leak Checks
  4. Flow to Load
  5. Fuel Flow Meter QA
- C. Sample Query
1. Why to run a query
  2. How to run a query
- D. EPA's MDC Program
- E. EPA's FTP Site