Advanced Concepts of Rule Writing in Instrument Manager
Blended Course

Course Description

This high-impact blended course is designed for experienced professionals looking to push the boundaries of what's possible within Instrument Manager's Rules Engine! With a focus on advanced concepts and real-world application, participants will dive deep into complex rule construction, explore powerful Data Elements for specialized workflows, and perform intricate calculations to automate critical processes.

Course Overview

- Blended learning course.
- Three virtual Instructor-Led Training (ILT) sessions over 3 weeks.
- Two hours of self-paced eLearning Prep Work prior to class start.
- One to two hours of self-paced eLearning between virtual ILT sessions.

  Course length: One week of Prep Work and three weeks ILT.

Course Objectives

- Demonstrate how to write, test, and document rules to perform complex functions.
- Explain how rule placement impacts order and result messages.
- Apply concepts of using advanced Operators to perform calculations and identify reruns.
- Understand Notifier and Non-default message types.

Prerequisites

Participants must understand laboratory workflows and operation of Laboratory Information Systems for transmission of orders and receipt of results from laboratory instrument interfaces. Prior attendance in a Data Innovations Foundations of Rule Writing course or equivalent training is required.

Technology Requirements

- A dual extended monitor set up is required with at least one large monitor (i.e. 22 in).
- A microphone is required.
- Access to AWS WorkSpaces (may require your IT security access).

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Course Agenda - Prep Work Self-Paced

- Rule Writing Process Review
- Data Flow Overview
- Streamlining Rules
- Rule Testing
- Actions and Operators Review
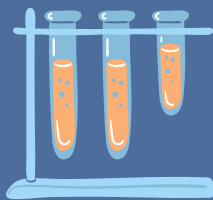
Course Agenda - Week One ILT

- Welcome and Introductions
- Extract Component vs. Extract Section of Operators
- Data Element User Fields
- Concatenated with Operator

Course Agenda - Week Two ILT

- Cross Analyzer Calculations with User Fields
- Identify Repeated Samples
- Previous Run Results vs Previous Patient Results
- Test User Persistent Fields

Course Agenda - Week Three ILT

- Notifier Events with Rules
- Matches Pattern of
- Specimen Warnings
- Non-default Rule Locations
- SM Rules and Testing

Topics Covered in Self Paced Sessions

- Storing Data in User Fields
- Language Locale
- Rules Testing
- Notifier
- Audit Files

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Course Agenda - Week One

Day One ILT

Welcome and Introductions
Extract Component vs. Extract
Section of Operators
Data Element User Fields
Concatenated with Operator

Day One Homework

Storing Data in User Fields
Language Locale
Rules Testing

Course Agenda - Week Two

Day Two ILT

Cross Analyzer Calculations with
User Fields
Identify Repeated Samples
Previous Run Results vs Previous
Patient Results
Test User Persistent Fields

Day Two Homework

Notifier
Audit Files

Course Agenda - Week Three

Day Three ILT

Notifier Events with Rules
Matches Pattern of
Specimen Warnings
Non-default Rule Locations
SM Rules and Testing