

Decisions Developer Course

Course Description:

This course is intended for future members of the Decisions Developer Community and builds upon the basic skills learned in the Decisions Business Analyst Course. This track provides increasingly deeper knowledge and practical experience with Decisions and Process Automation. Upon completion, attendees of this course will be Certified Decisions Developers capable of identifying and automating business processes using Decisions.

The course is organized with lectures to introduce new concepts and dedicated practical lab periods for the application of new learning.

Primary Course Learning Objectives:

1. DEVELOP an end-to-end application using the Decisions Designers as detailed in project requirements documentation and associated task lists.
2. AUTOMATE data import, clean-up, and updates using the Decisions Designers as detailed in project requirements documentation and associated task lists.
3. USE Application Programming Interface (API) services within Decisions to dynamically run rules, flows, reports, and other Decisions components as detailed in project requirements documentation and associated task lists.
4. MANIPULATE Portable Document Format (PDF), Comma-Separated Values (CSV), Excel, and other document formats using the Decisions Designers as detailed in project requirements documentation and associated task lists.
5. DEMONSTRATE Decisions Development Best Practices using Decisions Designers as detailed in project requirements documentation and associated task lists.

Course Prerequisites:

1. Business Analyst Course.

Required Equipment:

1. Students must provide their own laptop meeting the following minimum specifications:
 - a. 4-Core CPU Processor
 - b. 8 GB RAM
 - c. 100 GB of free Hard Disk Space

Evaluation:

Content & Material	Weight
Application Build and Exam #1	20%
Application Build and Exam #2	20%
Application Build and Exam #3	20%
Application Build and Exam #4	20%
Application Build and Exam #5	20%

Application Builds:

The majority of the class will be dedicated to practical applications labs in which students will have time to build competency in the primary Decisions Designers under the review of a qualified Decisions Mentor. At the end of the course, students must have successfully built and demonstrated 5 application builds utilizing increasingly more complex Decisions Developer skills.

Exams:

The Decisions Developer Course has 5 knowledge examinations taken in the Decisions Learning Management System (LMS). Students must pass all knowledge exams with a score of 75% to successfully complete the course.

Attendance and Participation:

This course is synchronously offered via Zoom or live at Decisions World Headquarters located in Virginia Beach, Va. *Attendance and participation in all lecture and lab periods are required to complete the course.*

Course Topic Outline

Week 1

Day 1	<ul style="list-style-type: none"> ● Welcome and Introduction ● Baseline Knowledge Survey ● Agile Project Management ● Using Subflows/Compartmentalizing Logic ● Email Notifications/Scheduled Jobs ● Error Handling ● Import/Exporting ● Application Build #1 Requirements
Day 2	<ul style="list-style-type: none"> ● Application #1 Lab
Day 3	<ul style="list-style-type: none"> ● Application #1 Lab
Day 4	<ul style="list-style-type: none"> ● Application #1 Lab
Day 5	<ul style="list-style-type: none"> ● Application #1 Testing ● Exam #1

Week 2

Day 1	<ul style="list-style-type: none"> ● Excel/CSV Manipulations ● Installing Modules ● Database Restoration ● Integrations with Decisions (External Database) ● Relating Data Structures ● Multi-threading/Parallel Processing ● Unit Testing ● Profiler ● Application Build #2 Requirements
Day 2	<ul style="list-style-type: none"> ● Application #2 Lab
Day 3	<ul style="list-style-type: none"> ● Application #2 Lab

Course Topic Outline (Cont'd)

Week 2 (Cont'd)

Day 4	<ul style="list-style-type: none"> ● Application #2 Lab
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Day 5	<ul style="list-style-type: none"> ● Application #2 Testing ● Exam #2
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Week 3

Day 1	<ul style="list-style-type: none"> ● Data Return Rules ● Rule Sets ● Run Time Selection ● Serialization/Deserialization ● Calling Decisions As A Service ● Application Build 3# Requirements
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Day 2	<ul style="list-style-type: none"> ● Application #3 Lab
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Day 3	<ul style="list-style-type: none"> ● Application #3 Lab
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Day 4	<ul style="list-style-type: none"> ● Application #3 Lab
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Day 5	<ul style="list-style-type: none"> ● Application #3 Testing ● Exam #3
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Week 4

Day 1	<ul style="list-style-type: none"> ● Advanced Form Controls (Data Repeaters/Mixed Type) ● Configuration Folder (CRUD) ● Manipulating PDF Files (Read-Only and Converting) ● Advanced List Management (String Builder/Rule Collection Filter) ● File Handling (File Data vs File Reference) ● Application Build 4# Requirements
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Day 2	<ul style="list-style-type: none"> ● Application #4 Lab
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Course Topic Outline (Cont'd)

Week 4 (Cont'd)

Day 3	<ul style="list-style-type: none"> • Application #4 Lab
Day 4	<ul style="list-style-type: none"> • Application #4 Lab
Day 5	<ul style="list-style-type: none"> • Application #4 Testing • Exam #4
Week 5	
Day 1	<ul style="list-style-type: none"> • Parent/Child Reporting • Troubleshooting • Sub-dialogs • Application Build #5 Requirements
Day 2	<ul style="list-style-type: none"> • Application #5 Lab
Day 3	<ul style="list-style-type: none"> • Application #5 Lab
Day 4	<ul style="list-style-type: none"> • Application #5 Lab
Day 5	<ul style="list-style-type: none"> • Application #5 Testing • Exam #5 (Cumulative covering material from all weeks)