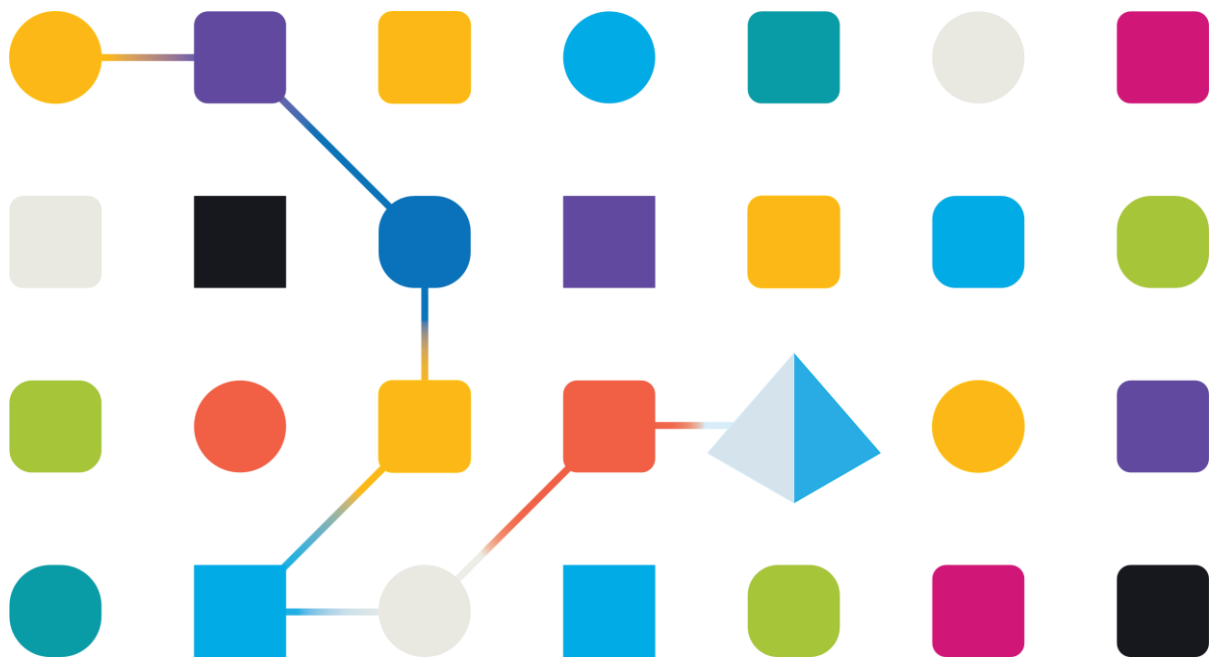




SS&C | Blue Prism® Developer Certification Handbook

Document Revision 1.0



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Contents

- Introduction..... 4
 - Target Candidates 4
 - Badging 4
 - Registration and Scheduling 4
- Developer Certification Learning Plan 5
 - Training Courses..... 5
 - Advanced Consolidation Exercise..... 5
 - Exam Preparation..... 5
 - Certification..... 5
- Training Options..... 6
- Exam Content Outline 7
 - Objective 1: Understanding Flow within a Process (15%)..... 7
 - Objective 2: Configuring Objects (25%)..... 7
 - Objective 3: Datatype Variables – How Data flows through the Process (5%)..... 7
 - Objective 4: Error Management how to manage Exceptions (20%) 7
 - Objective 5: Case Management – Dealing with Work Queues (17%)..... 7
 - Objective 6: Calculations & Functions – Data Manipulation (8%)..... 8
 - Objective 7: Debugging – Error Identification & Removal (3%) 8
 - Objective 8: General Items (7%)..... 8
- Preparation Materials 9
 - Learning Courses from the SS&C | Blue Prism® University 9
 - Three Months of Additional Experience 9
 - Portal Guides 9
 - VBOs (Distributed with SS&C | Blue Prism® Release) 9
 - VBOs 10
 - Further Product Training..... 10
- Exam Details 11

Introduction

The SS&C | Blue Prism® Developer Certification is for candidates who have robotic automation knowledge and can work in a variety of SS&C | Blue Prism® Enterprise environments. The SS&C | Blue Prism® Developer exam evaluates a developer's understanding of the mandatory SS&C | Blue Prism® Developer concepts and functionality. It is an internationally recognized certification that identifies the individual as possessing the skills of a SS&C | Blue Prism® Developer. Getting certified empowers the individual to distinguish themselves from the competition and increases marketability.

Target Candidates

The target candidates are developers who build and configure process automation and objects using core workflow principles that are efficient, well structured, maintainable, and easy to understand by standard SS&C Blue Prism design principles and best practices. Candidates need to be able to problem-solve the running of SS&C Blue Prism processes and create and document test procedures and scenarios to support the operational team during the User Acceptance Testing and roll-out phases.

The target candidates could hold a role in a robotic automation environment, including but not limited to, junior developer, developer, lead developer, technical support, ROM architect, and process analyst.

A qualified candidate could be an individual who:

- Has passed the SS&C | Blue Prism® Associate Developer Certification examination (recommended)

- OR -

- Has completed the [SS&C | Blue Prism® Developer Certification Learning Plan](#) either by self-study at the SS&C | Blue Prism® University and/or attended an instructor-led workshop from SS&C Blue Prism or one of its authorized training partners
- Has three months hands-on experience is strongly recommended

Badging

SS&C Blue Prism is in a partnership with Credly and awards digital badges to individuals who successfully pass the SS&C | Blue Prism® Developer exam. If you successfully pass your exam, you will receive an email notification from Credly with instructions for claiming your badge and setting up your account. Digital Credly badges help earners promote their achievements. Visit the [Frequently Asked Questions](#) site for further information about digital badging.

Registration and Scheduling

To schedule the SS&C | Blue Prism® Developer exam, please visit [Pearson Vue website](#) or visit the [Frequently Asked Questions](#) site for further information about registering and scheduling an exam online* or at a test centre.

* When you book the online exam, select the exam ending in `_OP` for the online version of the exam.

Developer Certification Learning Plan

Training Courses

To prepare for the SS&C | Blue Prism® Developer Certification exam you should complete the [SS&C | Blue Prism® Developer Certification Learning Plan](#), consisting of:

- Basic Awareness
- Foundation Training
- Process Templates
- Credentials and Credential Manager
- Advanced-Data Items
- Advanced Attribute Matching
- Advanced Exception Handling
- Advanced Work Queues
- Process Delivery Roadmap
- Creating a SS&C Blue Prism process
- Business Objective Design
- Solution Design Overview
- Process Building and Debugging
- Modern Brower Automation
- Surface Automation
- Advance Consolidation Exercise
- Exam Preparation

Advanced Consolidation Exercise

The Advanced Consolidation Exercise (ACE) is a scenario-based exercise that provides the candidates with the process and objects examples that simulate the real-life issues candidates may be exposed to in a live project. The ACE is built on a lighter process version of the BP Travel System Process that the candidate will have reviewed during the Lifecycle Orientation as part of their initial training.

Exam Preparation

This [practice test](#) is to help you get an idea of what to expect when you sit the SS&C | Blue Prism® Developer Certification exam. The test consists of:

- 30 questions to be completed in 30 minutes
- Single choice, multiple-choice, and fill-in-the-blank type questions

Certification

Once all the training courses are complete a candidate is prepared for the SS&C | Blue Prism® Developer exam. The exam is delivered either in a Pearson VUE test center or online and consists of 60 questions covering all development aspects within the SS&C | Blue Prism® Enterprise.

A score of 70% is required by the candidate to pass.

Training Options

- [Portal Registration](#) & enroll in the [SS&C | Blue Prism® Developer Certification](#) at SS&C | Blue Prism® University. Developer Certification Learning Plan is a comprehensive online training for you to prepare for the Developer exam at no cost to the individual.
 - You can also download [SS&C | Blue Prism® Learning Edition](#) at no cost for practice.
- OR -
- SS&C Blue Prism courses at a [SS&C | Blue Prism® Accredited Training Partner](#)
- OR -
- Other training or self-learning sources that cover the Objective listed in the Exam Content Outline.

Exam Content Outline

Objective 1: Understanding Flow within a Process (15%)

Designing a new process using Process Studio is simple and powerful. Using the components provided within the toolbox, complex business processes can be automated, and process control and flow elements easily implemented.

- Task 1.1 Organize logic by creating Sub Pages
- Task 1.2 Construct logic by building Decision & Choice Stages
- Task 1.3 Explain Layers of Logic and Flow by integrating of within a process

Objective 2: Configuring Objects (25%)

Along with web services, business objects provide the means of interacting with external systems from your process flow chart in Process Studio. Business objects provide a series of actions that can be called a process.

- Task 2.1 Explain the Importance of Object Best Practices while building Objects
- Task 2.2 Comprehend an element's attributes in Application Modeller
- Task 2.3 Identify how Global Send Keys and Objects can interact with each other

Objective 3: Datatype Variables – How Data flows through the Process (5%)

The properties dialog for the data item allows you to change various constraints for the data that is contained within it. SS&C | Blue Prism® Enterprise has several built-in data types.

- Task 3.1 Construct loops by using Collections and Loop Stages
- Task 3.2 Cast data from one data type to another

Objective 4: Error Management how to manage Exceptions (20%)

Exceptions occur during the running of a process for various reasons. Usually, when an exception occurs, the process stops, and its status in Control Room shows as Terminated. Sometimes, it is not desirable for the process to stop when an exception is encountered. In certain contexts, we can handle the exception and continue with processing.

- Task 4.1 Employ Retry Loops to minimize Exceptions
- Task 4.2 Construct unhappy paths considering how Exceptions are thrown
- Task 4.3 Employ Recover and Resume stages in Process Building
- Task 4.4 Explain the importance of Preservation of Exceptions

Objective 5: Case Management – Dealing with Work Queues (17%)

Work queues provide a mechanism for modelling the queueing, locking, and reporting of work items within a SS&C | Blue Prism® Enterprise environment. Work queues are managed from the Workflow section of System Manager. This includes searching for, creating, deleting, renaming, and configuring queues.

- Task 5.1 Understand how Work Queues are built (Creation & Administration)
- Task 5.2 Demonstrate the basics of Work Queues functionality

Objective 6: Calculations & Functions – Data Manipulation (8%)

Expressions can be created in a variety of ways. They can be typed directly into the Expression Editor or can be built up by dragging and dropping items from either the Function List or the Data Item List. The Function List shows all the functions available in the SS&C | Blue Prism® Enterprise.

- Task 6.1 Describe the basic functionality of using Calculations
- Task 6.2 Recognize the importance of Environmental Functions
- Task 6.3 Utilize Text Functions within the building of processes

Objective 7: Debugging – Error Identification & Removal (3%)

The debugging facility allows you to simulate the execution of your business process or business object from within the process studio or object studio. All the while, you can watch which path the execution takes along your flow chart, query the values of data items, amend your flowchart during execution and jump to areas of interest.

- Task 7.1 Integrate Stepping during the debugging Process
- Task 7.2 Comprehend the use of Breakpoints while Debugging

Objective 8: General Items (7%)

Items under this Objective do not fall under any other objective and can range from items like Environmental Variables, Control Room, Templates, and the Application Modeller.

- Task 8.1 Understand the Control Room's functionality
- Task 8.2 Demonstrate the use of Environmental Variables
- Task 8.3 Understand the importance of Standard Templates

Preparation Materials

Learning Courses from the SS&C | Blue Prism® University

- [Basic Awareness](#)
- [SS&C | Blue Prism® Foundation Training](#)
- [Credentials and Credentials Manager](#)
- [Advanced-Data Items](#)
- [Advanced Attribute Matching](#)
- [Advanced Exception Handling](#)
- [Advanced Work Queues](#)
- [Process Delivery Roadmap](#)
- [Creating a SS&C | Blue Prism® Process](#)
- [Business Object Design Best Practice](#)
- [Solution Design Overview](#)
- [Process Building and Debugging](#)
- [Modern Browser Automation](#)
- [Surface Automation](#)

Three Months of Additional Experience

It is recommended to include further exposure to technology-specific integration and best practice techniques and practical experience in designing diverse types of SS&C Blue Prism solutions.

Portal Guides

The following Guides (and many others) can be located through a Portal Documentation Search on the SS&C | Blue Prism® Portal: [Documents | SS&C | Blue Prism® Portal](#).

- Credential Manager Data Sheet
- Exception Screen Capture Function
- Extending Automations using .NET Framework
- Functional Requirements Questionnaire (FRQ) Overview
- Guide to UIA
- Introducing Your Process to Live Data
- Java Automation
- Login Agent
- Logging Configuration Policy
- MAPIEx
- Resource Pools and Groups
- Send Keys and Send Key Events
- Surface Automation of Terminal Emulators
- Using OLEDB
- Web Service

VBOs (Distributed with SS&C | Blue Prism® Release)

- Active Directory
- Calendars
- Collection Manipulation
- Date & Time Manipulation
- Encryption
- Environment
- File Management
- Foreground Locker
- General
- Google Sheets
- HTTP
- Image Manipulation
- JSON
- Locking
- MS Excel
- MS Outlook
- MS Word
- Network
- Numeric Operations
- OLEDB
- POP3 & SMTP
- SQL Server
- Strings
- Web Services Oath 2.0
- Web Services REST
- Windows Compressed Fil

VBOs

These non-core VBOs can download (as well as the standard/core VBOs) from the [Digital Exchange](#).

- Centralised Email Manager
- Cyberark Simple VBO
- VBO Example Interface
- Login Agent VBO
- Queue Reporting
- Utility - Date & Time Manipulation (Updated)
- Utility - Image Search
- Utility - XM

Further Product Training

- [Developer Jumpstart - Templates](#)
- [SS&C | Blue Prism® Best Practices](#)

Exam Details

Document Title	Description
Certification Name	SS&C Blue Prism® Developer
Pre-requisites	N/A. However, completion of the “SS&C Blue Prism® Developer Certification Learning Plan” with three months of hands-on experience is highly recommended
Number of Questions	60
Language	English, Germany, Spanish, Japanese, Russian, Simplified Chinese <i>* Non-English exam is only available at test centre</i>
Exam Duration	60 Minutes <i>* Candidates from countries where English is not an official language may be awarded an extra 30 minutes.</i>
Passing Score	70%
Exam Fee	USD\$150 except for the following countries: Gibraltar, Guernsey, Isle of Man, Jersey, United Kingdom: GBP£120 Andorra, Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Netherlands, Portugal, San Marino, Slovakia, Slovenia, Spain, Vatican City State: EUR€135 Japan: JPY¥16,000