Developer Associate Certification
Guide
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Introduction

This guide will help you to understand the scope of the Developer Associate certification, which areas and topics are assessed, and the resources we offer to enlarge your knowledge and obtain the certification.

The Bizagi Developer Associate Certification

The Bizagi Developer Associate certification will increase your market value and enable you to excel as a Bizagi expert, able to turn any process model into a running application. Moreover, you can gain visibility and credibility with clients and employers and help them to execute digital transformation strategies.

The exam consists of one individual exam:

1. Start the certification process by making payment.
2. After the payment confirmation is received, you will have 4 weeks to take the theoretical exam. You can start at any time during this period.
Programming Skills

The Developer Associate Certification is aimed for users with technical background and programming skills. You must understand the following programming languages:

- C#
- Javascript
- HTML
- CSS
- Json
- XML

Although you don't need to have any certification regarding these languages, you have to fully comprehend them. Also make sure that you are familiar with Microsoft Visual Studio:

- How to open projects
- How to run and debug code
- How to publish web services
Preparing the Exam

Prerequisites

Before enrolling for the Bizagi Developer Associate certification, make sure that you have completed the following courses:

- Process Modeling
- Process Automation 1
- Integration and Development

Additionally, we recommend reviewing with further detail the following topics:

- Environment administration
  - Management Console
  - Bizagi parameters configuration
- Work Portal Administration
  - Users Administration
- Deployment
  - Considerations and requirements

Preparation questions

The following panels, which are most likely to be part of either the theoretical exam or the practical exercise, will help you to assess your knowledge to review basic and advanced topics about integration systems in process automation.

Each panel contains a set of questions that will guide you through the topics that you need to review. The questions DO NOT ENCOMPASS all the topics assessed in the certification, but they will give you an idea of the minimum knowledge required to successfully complete the theory exam and practical exercise.

For each question, you have two links, one from self-paced courses on the e-learning site and another to our product documentation on the Help page.
## 1. Invoking External Services

### Basic Knowledge

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<tr>
<td>¿What are asynchronous activities?</td>
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<tr>
<td>¿How can you invoke SOAP web services?</td>
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<tr>
<td>¿How can you invoke REST web services?</td>
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### Advanced Topics

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<th>Question</th>
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<td>¿When do you need the advanced interface configuration?</td>
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<td>¿How can you troubleshoot web services invocation?</td>
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## 2. Data Level Integration

### Basic Knowledge

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<tr>
<td>¿When do you need to integrate at the data level and what are the different types of data integration?</td>
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<tr>
<td>¿How can you replicate entities?</td>
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### Advanced Topics

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<tr>
<td>¿When do you need to use the advanced replication configuration?</td>
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<tbody>
<tr>
<td>¿When do you need to use the Bizagi SOA layer?</td>
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<tr>
<td>¿What is the Entity Manager and Workflow?</td>
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<tr>
<td>¿What is the Bizagi OData layer?</td>
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<td>¿How can you get information from your entities?</td>
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<td>¿How can you create cases form external systems?</td>
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<tr>
<td>¿How do you use de OData API?</td>
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<tr>
<td>¿What is a Bizagi connector?</td>
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<tr>
<td>¿How can you create Bizagi connectors?</td>
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</tr>
<tr>
<td>¿How can you create a REST connector?</td>
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<td>¿How can you create a custom connector?</td>
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<tr>
<td>¿How is the architecture of a project in Bizagi?</td>
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<tr>
<td>¿How can you integrate your ECM with Bizagi?</td>
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<tr>
<td>¿What are the different types of authentication?</td>
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<tr>
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<td>¿How can you execute tasks using emails?</td>
<td></td>
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<td>¿How can you deploy processes in Bizagi?</td>
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Taking the Theoretical Online Exam

Requirements

The theoretical exam is web-based. The minimum system requirements are:

- Chrome browser at least version 32
- Port 80 opened
- Fast and stable internet connection. We recommend turning off any bandwidth consumption service (file sync, video streaming, or sharing apps), and having at least 4MB bandwidth.

Verify the language of your exam on the elearning.bizagi.com site before starting the exam:

Test Structure

The theoretical exam has three types of questions. Following is a description of each type:
1. True or False question

A statement is given, and you must decide whether it is true or false. Only one option is valid.

For example:

![Bizagi Developer Certification](image)

You can change the password of an interface in the Management Console.

Select one:

- True
- False

2. Multiple choice – single statement question

A question is asked, or a business scenario is mentioned. Possible Statements are displayed with letters (a,b,c,d,e), giving possible answers to the question or solutions to the business scenario.

The **None** option implies that none of the statements given is true or valid. On the other hand, the **All** option must be selected if all the statements are true. Only one option is valid.

For example:

![Bizagi Developer Certification](image)

An email must be sent to the responsible of performing a task and his supervisor one day before the task expires. To do that you can:

Select one:

- a. Attach a timer to the task to model an exception flow connected to a User task where the email is sent
- b. Create an alarm in the Work Portal that is triggered one day before expiration
- c. Use the SOA layer to continuously check the expiry date of the task, and send an email one day before
- d. All
- e. None
3. Multiple choice – multiple statements

A question is asked, or a business scenario is mentioned. Multiple statements are displayed in Roman numerals (i, ii, iii, iv, v) giving possible answers to the question or solutions to the business scenario.

Subsequently, possible options are displayed with letters (a,b,c,d,e). Each option contains a Roman numeral (a statement) or a combination of them, showing which statements are true.

The None option implies that none of the statements is true. On the other hand, the All option must be selected if all the statements are true. Only one option is valid.

For example:

![Bizagi Developer Certification](image)

The Management Console can be used to:

- i. Manage the expressions and business rules of a project
- ii. Define the environment parameters such as the SMTP, Email integration and custom parameters
- iii. Manage jobs executed by the Scheduler
- iv. Manage the information of final users

Select one:

- a. i and ii
- b. ii and iii
- c. None
- d. All
- e. i, ii and iv

At the end of this document there is a Practice Test.
Conclusion

The Bizagi Developer Associate Certification is an achievement that gives you a competitive advantage in the field of digital transformation and BPM strategies. We hope you find all the resources we provide useful to achieve your goal. If you have any questions you can consult the FAQ page or email us at elearning@bizagi.com.
Resources

- E-learning
- Help
- Bizagi Community
Practice test

Question 1
Which statement(s) holds true for a connector?

i. Is used to invoke SOAP web services
ii. You can include external libraries downloaded from the NPM (node package manager)
iii. If the minor version changes, the connector is overwritten in Bizagi Studio
iv. There are two types that can be created from scratch: REST and Custom connectors

Select one:

a. i and iv
b. ii and iii
c. ii, iii and iv
d. i
e. None of the options

Question 2
Based on the following BPMN diagram:

i. The exception path of task B is triggered when a method of the Bizagi SOA layer is invoked from an external application
ii. Task C is executed when a controlled error happens (Business error)
iii. The task C has to be configured as an asynchronous activity because you don't know when it can be instantiated
iv. The path connected to the Error Event is configured in the Interface configuration (Step number 6 of the Wizard)
Select one:
   a.  i and iv 
   b.  iii 
   c.  ii and iv 
   d.  i and ii 
   e.  None of the options

Question 3
Which statement(s) correctly defines a configuration needed to invoke the OData layer?

Select one:
   a.  You should only select the LOGIN option in Allowed Scope, and register any user to obtain the data exposed through the OData layer 
   b.  You should not select the Client credentials Grant Type to invoke the OData layer 
   c.  You should select the API option in Allowed Scope, and define the user who has authorization to obtain the data exposed through the OData layer 
   d.  None of the options 

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Question 4

When you need to use a Connector in a process, you have to:

Select one:

a. Use a Message task and configure it in the Step number 6 of the wizard
b. Use a Service task as an asynchronous activity, define an On Exit activity action, select the Connector option, and then select the connector
c. Use a Script task and define an activity action using the interface option, then select the connector
d. Go to the Expert view, select the Process module, and inside the process’ options, use the External system configuration

Question 5

When a Service task is configured as an asynchronous activity, which of the following statement(s) is true?

i. The first invocation of an interface is done by the Web Application if the activity is configured with the Show Feedback option
ii. If the invocation fails, the Scheduler handles the retries
iii. It is recommended also for the usage of connectors
iv. On Exit expressions are executed in every retry

Select one:

a. i
b. i and iii
c. ii, iii and iv
d. ii and iv
e. All
Answers

1. c
2. c
3. c
4. b
5. b