

BlackBerry Certification Program Exam Guide

Exam # BCP-810 Developing Applications for the BlackBerry Solution



Knowledgeable.
Capable.
BlackBerry Certified.

 **BlackBerry**
Certification Program

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Exam Guide
BCP-810 Developing applications for the BlackBerry solution



BlackBerry Certification Program general information

The BlackBerry® Certification Program is designed to enhance your professional credibility by providing quantifiable proof of your skills and knowledge related to BlackBerry solutions. BlackBerry certification will help to set you apart in the competitive world of mobile devices and applications.

The BlackBerry Certification Program exams are role based. They focus on the practical application of BlackBerry solution knowledge required by specific roles in the stages of a BlackBerry solution deployment. Initially, BlackBerry certification will be available for the following roles:

- BlackBerry Certified Support Specialist
- BlackBerry Certified Server Support Specialist
- BlackBerry Certified System Administrator
- BlackBerry Certified Solution Designer
- BlackBerry Application Developer Certification

Take the exam

Register for the exam

Follow the steps below to register for a BlackBerry certification exam.

1. Review details for the BlackBerry Certification Program exam you want to take on the BlackBerry website at www.blackberry.com/certification
 - a. Review the BlackBerry Certification Program Guide.
 - b. Review the corresponding exam guide.
2. Once you have decided to register for a BlackBerry Certification Program exam, click the **Register Now** link located beside the exam title on the web page.
3. You will be redirected from the www.blackberry.com web site to the website of the company administering the BlackBerry Certification Program exams. This is the test service provider.
4. Select a date and time to take the exam. (You may also register over the phone or in person at the testing location).

Attempting a BlackBerry Certification Program exam

1. You should arrive at the testing center at the scheduled time with 2 pieces of ID. At least one should be a valid photo ID.



Identification is considered to be valid (non-expired) as long as it does not have an expiration date that has passed.

For a list of acceptable ID cards, please refer to Valid photo IDs

Note

2. You will be asked to register with the test service provider, if you have not already done so. Once you have registered, you will receive a candidate ID from the test service provider and a unique BlackBerry Certification Program ID. As part of the registration process you will need to read and, if you agree, sign the Candidate Rules Agreement.



The photo ID must have a permanently affixed photograph and a signature and must be valid (not expired). An ID must be an original document and not a photocopy or a fax.

The non-photo ID must display your signature.

A BlackBerry Certification Program ID will be assigned to you the first time that you complete a BlackBerry certification exam. The BlackBerry Certification Program ID will be used by BlackBerry Certification Program administrators.

Note

3. You will be asked to store any personal items in a designated secure area outside the testing room.
4. You will take the BlackBerry Certification Program exam.
5. Once you complete the BlackBerry Certification Program exam, you will immediately be given a score report indicating whether you passed or failed the exam.
 - a. If you pass, you will become BlackBerry Certified.
 - b. If you do not pass, you will be provided with study information. You should also review the exam retake policy in the BlackBerry Certification Program Guide.

Valid photo IDs

The following are acceptable forms of identification:

Photo ID	Non-photo ID
<ul style="list-style-type: none">• Government issued driver's license• Employee ID or work badge• Passport• Military ID	<ul style="list-style-type: none">• Credit card• Check cashing card

Exam details

This exam targets application developers in either the Java® or web development areas. The majority of these individuals will work in a corporate setting where they are responsible for designing applications for the BlackBerry solution.

Candidates will be required to complete two (2) exams in order to attain the BlackBerry Certified Application Developer certification. The first exam will be focused on creating applications in the BlackBerry solution and the second exam will focus on either Java Development or Web Development; depending on the candidates focus. No specific training is required to attempt any of these exams.

Audience

With the increasing use of BlackBerry devices in the mobile environment, this program will assist in quantifying the skills of candidates who work in development jobs as well as those interested in this type of profession.

BlackBerry Certified Application Developer's will have proven their knowledge of the BlackBerry platform and how to design applications to work within it.

As a result of the BlackBerry Certification Program, BlackBerry customers will have access to employees with proven skills in the above area, and candidates will have a method of providing an indication of their expertise in the area of developing applications for the BlackBerry platform.

The candidate should possess having fundamental knowledge of BlackBerry application development, as well as having general development experience. The candidate should have an appropriate understanding of the BlackBerry platform, as well as the options available for BlackBerry development such as Java and web-based technologies in order to adequately design basic applications for the BlackBerry platform. The candidate should be able to choose the appropriate development technology, using the appropriate tools to build an application that meets design objectives. The candidate should also understand the basic constraints involved in designing and developing applications for a mobile platform.

What can the candidate do without assistance?

- Describe the use of the BlackBerry® Integrated Development Environment to make a basic application
- Describe the steps and components (offered by RIM) involved in testing and debugging an application
- Choose whether or not to use the Eclipse® Java tooling or eclipse web tooling
- Properly operate the BlackBerry simulator.
- Choose whether or not to use the visual studio web tooling
- Choose the appropriate technology to create an application.
- Differentiate between computer and mobile development
- Understand what Java and web have to offer and how the tooling that BlackBerry offers addresses those.
- Sketch a high-level architecture of a solution on BlackBerry.
- Describe the BlackBerry platform at a high level.
- Describe the pros and cons of the available deployment mechanisms, but can only deploy in a development environment

What can the candidate do with assistance?

- Sketch a detailed architecture of a solution for the BlackBerry platform.
- Deploy the applications to BlackBerry device users
- Take a java application and load it into the IDE, build it, and load it into the device.
- Take a web application and load it into the IDE, build it, and load it into the device.

In which environments can the candidate complete the tasks?

- BlackBerry Internet Service and/or BlackBerry Enterprise Server
- OS version 4.0 and above

Which tools is the candidate familiar with?

- BlackBerry simulator
- At least one of the application development tools such as (JDE, eJDE, Visual Studio, web development plugin for Eclipse)

What is this candidate NOT expected to do?

- Develop an application in BOTH Java and web

Prerequisites

- No prerequisites

Recommendations

- Applicable training as per the exam guide
- Familiarity with product documentation
- Knowledge of accessing BlackBerry® Developer zone resources

Test structure

Exam type:	CBT: Linear Fixed Forms - Beta version
Availability:	On-demand
Pass/fail status:	Compensatory (single cut point)
Test scoring:	Computer Scored
Score report:	Mailed after results are processed
Languages:	Initial release in English – plans for future translation
Item types/formats:	- Multiple Choice - single and multiple answer - Drag and drop items - place procedures in order or select items from a larger list
Time to complete:	90 Minutes
Number of items:	64 items and agreement to the Candidate Agreement

Note: A list of acronyms and a glossary will be provided during the exam.

What does BlackBerry certification mean to me?

A candidate who has passed a BlackBerry Certification Program exam (either a BCX-### or BCP-### version) for one or more roles in the BlackBerry Certification Program has demonstrated proficiency with one or more BlackBerry solutions. To be certified through the BlackBerry Certification Program, you must pass one or more product-related, task-oriented proficiency exams.

BlackBerry certification may provide the following benefits:

- Immediate and quantifiable proof of skills and knowledge with regards to implementing and supporting BlackBerry solutions
- Can be used as part of a supplementary performance program
- Increased productivity and efficiency
- Advancement of skills and knowledge for those in information technology fields

Exam sections and weightings

Exam sections

The **Developing Applications for the BlackBerry Solution** exam contains the following sections:

- BlackBerry device capabilities
- Infrastructure for BlackBerry
- High Level Application Design
- BlackBerry Simulation tools
- BlackBerry Security
- Deployment
- Development tools

Section weightings

Section number	Section name	Average % of exam
1	BlackBerry device capabilities	8%
2	Infrastructure for BlackBerry	9%
3	High Level Application Design	10%
4	BlackBerry Simulation tools	30%
5	BlackBerry Security	15%
6	Deployment	14%
7	Development tools	14%

Exam objectives

Section 1 - BlackBerry device capabilities

- List and describe BlackBerry device hardware features (such as GPS, MicroSD, camera, etc.)
- List and describe BlackBerry native applications
- Choose application features that are specific to BlackBerry Device Software versions

Section 2 - Infrastructure for BlackBerry

- Describe the different types, features, and functions of the various push technologies
- Compare and contrast BlackBerry Internet Service and BlackBerry Enterprise Server architecture
- List and describe transport routes

Section 3 - High Level Application Design

- Map business requirements to the appropriate BlackBerry platform features
- Explain the best practices to create an efficient BlackBerry device application
- Given a scenario, appropriately choose a web-based application or a Java application
- Describe the constraints related to mobile devices
- Describe best practices related to UI design for a BlackBerry device application

Section 4 - BlackBerry Simulation tools

- Utilize the BlackBerry Device Simulator
- Given a scenerio, appropriately choose the correct simulator
- Operate an BlackBerry MDS-CS simulator
- Operate the ESS simulator
- Describe the limitations of the BlackBerry Device Simulator

Section 5- BlackBerry Security

- Describe IT and application control policies and the impact they have on an application
- Explain key security features
- Describe code signing keys and the signature tool

Section 6 - Deployment

- Describe the pros and cons of deploying applications through the BlackBerry® Desktop Manager
- Describe the pros and cons of deploying applications through the webloader
- Describe the pros and cons of deploying applications through the OTA browser
- Describe the pros and cons of deploying applications through the BlackBerry Enterprise Server OTA
- Describe the pros and cons of deploying applications through the Javaloader
- Describe the pros and cons of deploying applications through the BlackBerry App World™

Section 7 - Development tools

- Compare and contrast the various BlackBerry IDEs
- Explain BlackBerry debugging and optimization

How can I get training?

Before taking a BlackBerry certification exam, it is recommended that you have experience with the BlackBerry technologies covered in the exam and that you read the corresponding exam guide.

As new BlackBerry certification exams become available, corresponding exam guides will be available at www.blackberry.com/certification.

The following types of BlackBerry® Training resources, which may not be available for every BlackBerry certification exam, may help you prepare for BlackBerry certification exams:

- Tutorials and resources from www.blackberrydeveloper.com

The following documents and resources, which may not be available for every BlackBerry certification exam, may help you prepare for the BlackBerry Certification Program exams:

- BlackBerry Developer Guides
- BlackBerry Developer KnowledgeBase
- Developer videos
- www.blackberrydeveloper.com website
- Developer Whitepapers
- Developer Forum
- Developer Blogs
- JavaDocs



Exam Guide

Exam BCP-810 - Developing Applications for the BlackBerry Solution



Related resources and information

Exam Sections and Topics		Related resources and information
Section 1 - BlackBerry Device Capabilities		
1.1	List and describe BlackBerry® hardware features (such as GPS®, microSD, camera, etc.)	<ul style="list-style-type: none"> BlackBerry device user guides BlackBerry device self study guides
1.2	List and describe BlackBerry native applications	<ul style="list-style-type: none"> BlackBerry device user guides BlackBerry device Self Study Guides BlackBerry Technical Solution Center
1.3	Choose application features specific to BlackBerry® Device Software versions	<ul style="list-style-type: none"> Developer knowledgebase articles Developer getting started guide
Section 2 - Infrastructure for BlackBerry		
2.1	Describe the various types, features, and functions of the various push technologies	<ul style="list-style-type: none"> Push Development Guide (not yet released) Developer knowledgebase articles

	Exam Sections and Topics	Related resources and information
2.2	Compare and contrast BlackBerry® Internet Service and BlackBerry® Enterprise Server architecture	<ul style="list-style-type: none"> • BlackBerry Technical Solution Center • Other areas of BlackBerry.com • Developer knowledgebase articles • Self study guides • Other technical documents • Developer videos
2.3	List and describe transport routes	<ul style="list-style-type: none"> • Developer knowledge base articles • Developer video
Section 3 - High Level Application Design		
3.1	Map business requirements to the appropriate BlackBerry platform features	<ul style="list-style-type: none"> • Application of experience
3.2	Explain the best practice to create an efficient BlackBerry application	<ul style="list-style-type: none"> • Software Documents - Optimizing applications for BlackBerry
3.3	Given a scenario, appropriately choose a web-based application of a Java® application	<ul style="list-style-type: none"> • Application of experience • Developer videos
3.4	Describe the constraints related to mobile devices	<ul style="list-style-type: none"> • Optimizing applications for BlackBerry guide
3.5	Describe best practices related to UI design for a BlackBerry application	<ul style="list-style-type: none"> • Optimizing guide
Section 4 - BlackBerry Simulation tools		

	Exam Sections and Topics	Related resources and information
4.1	Utilize a BlackBerry device simulator	<ul style="list-style-type: none"> • Simulator help files • Simulator guides • Developer knowledgebase articles
4.2	Given a scenario, appropriately choose the correct simulator	<ul style="list-style-type: none"> • Simulator help files • Simulator guides • Developer knowledgebase articles
4.3	Operate an MDS-CS simulator	<ul style="list-style-type: none"> • Simulator guides • Developer knowledgebase articles
4.4	Operate the Email Server Simulator	<ul style="list-style-type: none"> • Simulator guides • Developer knowledgebase articles
4.5	Describe the limitations of the BlackBerry device simulator	<ul style="list-style-type: none"> • Simulator help files • Simulator guides • Developer knowledgebase articles
Section 5 - BlackBerry Security		
5.1	Describe IT and application control policies and their impact on application	<ul style="list-style-type: none"> • IT Policies Guide • Admin Guide • BlackBerry Technical Solutions Center

	Exam Sections and Topics	Related resources and information
5.2	Explain key security features	<ul style="list-style-type: none"> • Developer video • Developer Guides • Developer knowledgebase articles • Admin Guides
5.3	Describe code signing keys and the signature tool	<ul style="list-style-type: none"> • Developer KnowledgeBase • Developer Guides
Section 6 - Deployment		
6.1	Describe the pros and cons of deploying applications via BlackBerry® Desktop Manager	<ul style="list-style-type: none"> • Whitepaper • Developer video • Developer Guides
6.2	Describe the pros and cons of deploying applications via webloader	<ul style="list-style-type: none"> • Whitepaper • Developer video • Developer Guides
6.3	Describe the pros and cons of deploying applications via OTA browser	<ul style="list-style-type: none"> • Whitepaper • Developer video • Developer Guide
6.4	Describe the pros and cons of deploying applications via BlackBerry Enterprise Server OTA	<ul style="list-style-type: none"> • Whitepaper • Developer video • Developer Guides • Admin Guides

	Exam Sections and Topics	Related resources and information
6.5	Describe the pros and cons of deploying applications via javaloader	<ul style="list-style-type: none"> • Whitepaper • Developer video • Developer Guides
6.6	Describe the pros and cons of deploying applications via BlackBerry App World™	<ul style="list-style-type: none"> • Developer KnowledgeBase • App World documentation
Section 7 - Development Tools		
7.1	Compare and contrast the various BlackBerry® Integrated Development Environments	<ul style="list-style-type: none"> • Developer videos • Developer Guides
7.2	Explain BlackBerry debugging and optimization	<ul style="list-style-type: none"> • Developer videos • Developer Guides

Additional reference materials

- [Developer Guides](#)
- [Developer KnowledgeBase](#)
- [Developer Videos](#)
- [Bdeveloper.com](#)
- [Developer Whitepapers](#)
- [Developer Forum](#)
- [Developer Blogs](#)
- [JavaDocs](#)

Acronym list

E

ESS

G

GPS

I

ID
identification

IT

J

JDE

M

MDS-CS

O

OS

OTA

S

SNMP
Simple Network
Management Protocol

U

UI

Acronym list
