



Certification Exam Guide

# SALESFORCE CERTIFIED DEVELOPMENT LIFECYCLE AND DEPLOYMENT DESIGNER

Spring '17



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## **ABOUT THE SALESFORCE CERTIFIED DEVELOPMENT LIFECYCLE AND DEPLOYMENT DESIGNER CREDENTIAL**

The Salesforce Certified Development Lifecycle and Deployment Designer credential is designed for professionals who have the requisite skills and experience at managing Force.com platform development and deployment activities, and effectively communicating technical solutions to business and technical stakeholders.

## SECTION 1. PURPOSE OF THIS EXAM GUIDE

This exam guide is designed to help you evaluate your readiness to successfully complete the Salesforce Certified Development Lifecycle and Deployment Designer certification exam. This guide provides information about the target audience for the certification exam, recommended training and documentation, and a complete list of exam objectives—all with the intent of helping you achieve a passing score. Salesforce highly recommends a combination of on-the-job experience, course attendance, and self-study to maximize your chances of passing the exam.

## SECTION 2. AUDIENCE DESCRIPTION: SALESFORCE CERTIFIED DEVELOPMENT LIFECYCLE AND DEPLOYMENT DESIGNER

The Salesforce Certified Development Lifecycle and Deployment Designer has experience analyzing the environment and requirements to design an appropriate governance framework, and to manage the development and deployment lifecycle on the Force.com platform. The designer has experience designing and implementing complex development and deployment strategies, as well as communicating the proposed solution and design trade-offs to business and technical stakeholders alike.

The Salesforce Certified Development Lifecycle and Deployment Designer typically has the following background and experience:

- B.S. degree in Computer Science or equivalent degree
- Two to three years of Salesforce Platform experience
- One to two years of Salesforce experience working or managing Salesforce projects
- One to two years of experience working in a steering committee
- Completed at least one end-to-end software development lifecycle project

Typical job roles may include:

- Technical Lead
- Developer Lead
- Project Manager
- Release Manager
- Environment Manager
- Technical Architect
- Developers
- Testers

The Salesforce Certified Development Lifecycle and Deployment Designer candidate has the experience, skills, knowledge, and ability to:

- Communicate development methodologies and trade-offs.
- Provide alternatives to development methodologies.
- Ensure Governance through change management and release management.
- Ensure Governance in environment management.
- Develop and execute effective deployment strategies.
- Use technical tools to execute deployment strategies and environmental approaches.
- Describe the capabilities and characteristics of metadata API.

## SALESFORCE CERTIFIED DEVELOPMENT LIFECYCLE AND DEPLOYMENT DESIGNER

- Describe the capabilities and constraints of the tools available for accessing the Metadata API (Force.com Migration Tool, Force.com IDE, and Change Sets).
- Describe source control and continuous integration, how they are used, and when they should be recommended.
- Utilize testing methodologies.
- Describe strategies to restore and back up.
- Understand deployment KPIs.
- Follow Salesforce release schedules and know how they may impact deployments and projects.

A candidate for this exam will likely need assistance with:

- Environment configuration.
- Code development.
- Test execution.
- Code migration.
- Configuring continuous integration/development architectures.
- Setting up a governance process.

A candidate for this exam is not expected to know how to:

- Write ANT migration scripts.
- Set up the source control environment.

## SECTION 3. ABOUT THE EXAM

The Salesforce Certified Development Lifecycle and Deployment Designer exam has the following characteristics:

- Content: 60 multiple-choice/multiple-select questions\*
- Time allotted to complete the exam: 90 minutes
- Passing Score: 68%
- Registration fee: USD 400; Retake fee: USD 200
- Delivery options: Proctored exam delivered onsite at a testing center or in an online proctored environment. Click [here](#) for information on scheduling an exam.
- References: No hard-copy or online materials may be referenced during the exam.
- Prerequisite: None

\*Please note that on occasion, Salesforce Certification may place a small number of unscored questions on an exam in order to gather data on question performance. These unscored exam questions are in addition to the 60 scored questions on your exam, and have no impact whatsoever on your final exam score.

## SECTION 4. RECOMMENDED TRAINING AND REFERENCES

As preparation for this exam, Salesforce University recommends a combination of: hands-on experience, training course completion, Trailhead trails, and self-study in the areas listed in the Exam Outline section of this exam guide.

To access the most comprehensive training list, download a copy of our Salesforce Guide to Certification available [here](#).

To enroll in instructor-led courses and launch online training from your Salesforce application, click the **Help & Training** link in the upper right corner of the screen (requires login) and search for the desired courses. Non-Salesforce customers can register for instructor-led courses [here](#).

To review online Documentation, Tip Sheets, and User Guides – search for the topics listed in the Exam Outline section of the exam guide and study the information related to those topics. Documentation, Tip Sheets, and User Guides can also be accessed through **Help & Training**. Documentation is also available in PDF format [here](#).

Trailhead trails can be accessed [here](#).

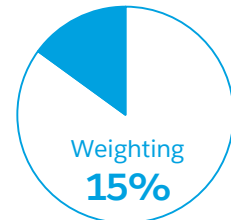


## SECTION 5. EXAM OUTLINE

The Salesforce Certified Development Lifecycle and Deployment Designer exam measures a candidate's knowledge and skills related to the following objectives.

### ENVIRONMENTS

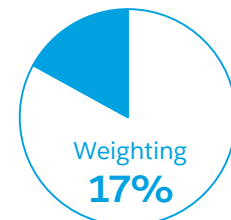
- Given a customer landscape and their requirements, evaluate business, technical, and architectural considerations while defining an appropriate org strategy.
- Given a customer scenario, define an environment (sandbox) strategy that utilizes the correct sandbox types (e.g., multiple project streams, training requirements, staging, production, and hotfixes).
- Apply map sandbox strategy to a specific Release Plan, taking into consideration multiple project streams, training requirements, staging, and hotfixes.
- Given a customer scenario involving a new Salesforce release, recommend the appropriate strategy to mitigate risk.
- Given a detailed customer environment scenario including a specific request, explain the implications for incorporating the request directly in a production environment.
- Given a customer scenario, explain how source control branching/versioning/merging can be used and recommend appropriate strategies.



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### APPLICATION LIFECYCLE MANAGEMENT

- Given the project risk and customer requirement, explain how to assess the benefits and risks of the different development methodologies and recommend the appropriate methodology based on the customer environment.
- Given a customer scenario, describe and recommend an appropriate release management strategy.



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### TESTING

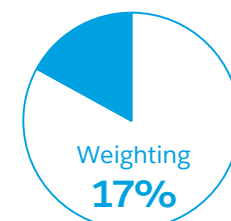
- Given a customer scenario, describe and recommend an appropriate testing methodology.



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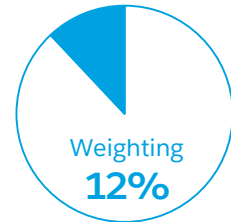
### GOVERNANCE

- Given a customer scenario, analyze and recommend the appropriate governance framework.



## RISK IDENTIFICATION AND MITIGATION

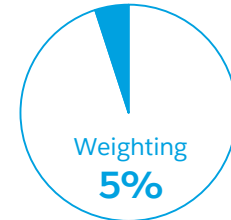
- Understand customer environment risks and articulate appropriate mitigation strategies.



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## CHANGE SETS

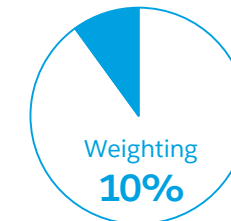
- Given a scenario, compare, contrast and recommend the components and tools of a successful deployment strategy.



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## METADATA API

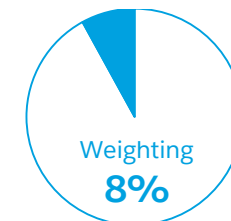
- Given a scenario, describe the capabilities, limitations, and considerations when using the Metadata API for deployment.



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## CONTINUOUS INTEGRATION TECHNIQUES

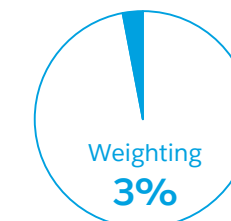
- Given a complex customer scenario ability, identify the appropriate use of source control, automated test, and deployment tools and demonstrate the ability to articulate the process involved.



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## METHODOLOGY TOOLS

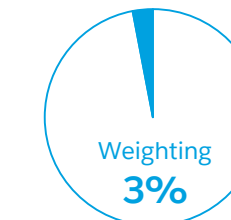
- Explain the advantages of using agile tools (e.g., Agile Accelerator) to support an agile development process.



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## UNDERSTANDING PACKAGES

- Given a scenario, analyze and explain the use cases and considerations when using managed vs. unmanaged packages.



## SECTION 6. SAMPLE EXAM QUESTIONS

The following questions are representative of those on the Salesforce Certified Development Lifecycle and Deployment Designer exam. These questions are *not* designed to test your readiness to successfully complete the certification exam, but should be used to become familiar with the types of questions on the exam. The actual exam questions may be more or less difficult than this set of questions.

1. Universal Containers is having problems with developers overwriting code and blaming each other for unit test failures. Because their Salesforce org produces financial reports, their legal counsel has also recommended that they begin auditing changes to the system for compliance reasons.

What recommendation should a Technical Architect make to address both issues?

*Choose one answer*

- A. Periodically export Salesforce system audit logs to an offline database.
- B. Implement a Source Control system and require developers to commit changes to source control.
- C. Require developers to work in separate sandboxes and periodically merge code into a single Software Integration sandbox.
- D. Implement a Requirements Traceability Matrix.

2. Universal Containers (UC) has purchased a new application from a partner to enable advanced quoting. UC just hired a developer to help modify the application to meet their needs.

Which two package types should the Architect recommend?

*Choose two answers*

- A. Unmanaged package developed in a Partner Developer Edition org.
- B. Managed package developed in a Partner Developer Edition org.
- C. Unmanaged package developed in a Developer Edition org.
- D. Managed package developed in a Developer Edition org.

3. What consideration should an Architect take into account when asked for a recommendation of Agile vs. Waterfall?

*Choose one answer*

- A. Rapidly changing business requirements.
- B. Project budget and timeframe.
- C. Number of stakeholders involved.
- D. Technical complexity of the project.

4. Universal Containers (UC) has a highly customized org. A Salesforce release is coming up soon, and UC has sandboxes that have already been upgraded to the next release.

What two actions should UC take to ensure that their customizations are not affected by the new release?

*Choose two answers*

- A. Execute all unit tests in the upgraded Sandbox to validate that code has not been affected.
- B. Review code in the upgraded Sandbox to ensure that no automatic updates were applied to the code.
- C. Testing is not necessary, because Salesforce tests all code and configuration before each upgrade.
- D. Review the updated features of the release, and perform functional testing to understand the impacts of updated features.

5. A Salesforce release is coming up soon, and Universal Containers (UC) has sandboxes that have already been upgraded to the next release. UC has been developing code in an upgraded Sandbox, and needs to deploy code to Production which is still on the previous release.

What is required to deploy these changes to Production?

*Choose one answer*

- A. No adjustments are necessary, because all metadata types will deploy normally to Production.
- B. It is not possible to deploy from an upgraded Sandbox to an older Production version.
- C. Versioned metadata needs to be downgraded to a previous API version before deployment.
- D. No adjustments are necessary, as long as the deployment is from a Full Sandbox.

## SECTION 7. ANSWERS TO SAMPLE EXAM QUESTIONS

1. B
2. A, C
3. A
4. A, D
5. C

## SECTION 8. MAINTAINING A CERTIFICATION

One of the benefits of holding a Salesforce credential is always being up to date on new product releases. Our release exams are designed to ensure you have the latest information you need to be a successful Salesforce Certified expert.

Click [here](#) for information regarding requirements and cost to maintain your Salesforce certification.

If you earned the Salesforce Certified Development Lifecycle and Deployment Designer on or before March 23, 2017 you are required to pass the Salesforce Certified Development Lifecycle and Deployment Designer – Spring '17 Release Exam. Click [here](#) for details about the release exam objectives, number of questions, recommended preparation, and registration information.

### ABOUT SALESFORCE UNIVERSITY

Salesforce University offers a comprehensive catalog of courses and certifications to help you administer, develop, and use your organization's Salesforce environment. Whether you need a customized private course for your whole team or an in-depth instructor-led classroom experience for one person, Salesforce University can help you take the next steps on your journey to success. Contact us today to learn how we can help you get the most out of your Salesforce investment.

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