ORACLE
NetSuite

Prepare for the Oracle NetSuite Application Developer Exam

ORACLE
NetSuite

Contents

About the Oracle NetSuite Application Developer Exam 4

Recommended Skill Level 4

Recommended Training 4

- MyLearn 4
- NetSuite Help Center 4
- SuiteAnswers 4

Topics Covered by the Exam 5

Study Suggestions 6

- SuiteScript 2.1 6
  - Differentiate SuiteScript testing and debugging choices and how to implement proper error handling in scripts. 6
  - Examine ways to design robust solutions, including choosing the correct script type and entry points for a given scenario and promoting script reuse and modularity. 6
  - Apply SuiteScript best practices across script types. 6
  - Demonstrate how to build and modify user interfaces in SuiteScript. 6
  - Use different approaches to interact with records in SuiteScript. 6
  - Use different approaches to automate communications in SuiteScript. 6
  - Identify ways to ensure that scripts function properly across different environments. 6
  - Demonstrate how to build SuiteApps to support internationalization and localization. 6
  - Demonstrate the use of Map/Reduce technology to efficiently process data. 6
- SuiteFlow 7
  - Demonstrate how to configure workflow states, actions, and transitions to correctly react to triggers. 7
  - Explain how to structure workflows to process on the client and server. 7
  - Examine how to optimize workflows for best performance and use debugging and troubleshooting strategies to identify performance issues. 7
- SuiteBuilder 7
  - Show how to customize Advanced PDF/HTML Templates, including scripting-focused scenarios. 7
  - Demonstrate when and how to use custom forms, fields, records, segments, transactions, and the related security and performance implications. 7
- SuiteCloud Development Framework 7

Identify when to use Account Customization versus SuiteApp projects and show how to manage Account Customization projects. 7
Performance and Security 8
Demonstrate how to manage User Event scripts for maximum performance. 8
Explain strategies for using SuiteScript APIs and script types to enhance performance. 8
Demonstrate proper security measures across SuiteScript and SuiteFlow technologies. 8

About the Oracle NetSuite Application Developer Exam

The Oracle NetSuite Application Developer certification is designed for individuals with 1-2 years of experience developing NetSuite solutions on the SuiteCloud Developer platform. This certification supports candidates who want to become proficient in designing, developing, testing, and deploying secure, scalable and reliable NetSuite solutions.

This is the second exam required for the Oracle NetSuite Application Developer Certification, to be taken after the Oracle NetSuite SuiteFoundation Specialist Exam has been passed.

The credential awarded for passing this exam is **Oracle NetSuite Certified Application Developer**.

Recommended Skill Level

- 1-2 years of experience working with a range of SuiteCloud Platform technologies that focus on custom coding and point-and-click customization.
- 1-2 years of relevant software development experience
- Knowledge and skills necessary to design, develop, test and deploy secure, scalable, reliable, performant solutions to customize, extend and/or interact with NetSuite.
- Knowledge of JavaScript, SQL, JSON, HTML, and XML technologies.

Recommended Training

NetSuite provides a variety of resources including eLearning courses, detailed articles and guides, and community knowledge bases that are designed to enhance your NetSuite skills and knowledge.

MyLearn

Use MyLearn as your primary resource to prepare for the exam. Search for the **Certification Preparation – Application Developer** learning path to find a complete list of required courses.

MyLearn courses include video demonstrations that show you how to perform tasks in NetSuite. Some courses also provide downloadable Quick Reference Guides. In some courses, you can request a Lab to apply your knowledge in a NetSuite test environment.

NetSuite Help Center

The NetSuite Help Center contains detailed articles, guides, and how-to's that cover NetSuite technology.

Consult the Help Center for more information on the exam topics.

SuiteAnswers

SuiteAnswers is a community-driven knowledge base with official NetSuite responses and FAQs on a variety of related topics.

Go to SuiteAnswers to explore the exam topics.

To access SuiteAnswers, log in to your NetSuite account, click **Help**, and select **SuiteAnswers** from the center or Additional Resources menu.

Topics Covered by the Exam

Exam topics indicate the key areas covered in the exam, helping you study specific NetSuite skills and knowledge you need to pass the exam:

Topic	Objective
SuiteScript 2.1	Differentiate SuiteScript testing and debugging choices and how to implement proper error handling in scripts.
	Examine ways to design robust solutions, including choosing the correct script type and entry points for a given scenario and promoting script reuse and modularity.
	Apply SuiteScript best practices across script types.
	Demonstrate how to build and modify user interfaces in SuiteScript.
	Use different approaches to interact with records in SuiteScript.
	Use different approaches to automate communications in SuiteScript.
	Identify ways to ensure that scripts function properly across different environments.
	Demonstrate how to build SuiteApps to support internationalization and localization.
	Demonstrate the use of Map/Reduce technology to efficiently process data.
SuiteFlow	Demonstrate how to configure workflow states, actions, and transitions to correctly react to triggers.
	Explain how to structure workflows to process on the client and server.
	Examine how to optimize workflows for best performance and use debugging and troubleshooting strategies to identify performance issues.
SuiteBuilder	Show how to customize Advanced PDF/HTML Templates, including scripting-focused scenarios.
	Demonstrate when and how to use custom forms, fields, records, segments, transactions, and the related security and performance implications.
SuiteCloud Development Framework	Identify when to use Account Customization versus SuiteApp projects and show how to manage Account Customization projects.
	Explain the SuiteCloud Development Framework processes to efficiently build and deploy SuiteCloud projects, including approaches to validation and testing.
Performance and Security	Demonstrate how to manage User Event scripts for maximum performance.
	Explain strategies for using SuiteScript APIs and script types to enhance performance.
	Demonstrate proper security measures across SuiteScript and SuiteFlow technologies.

Study Suggestions

SuiteScript 2.1

Differentiate SuiteScript testing and debugging choices and how to implement proper error handling in scripts.

How to Study: Server-side debugging using SS 2.1 debugger; client-side debugging; using N/log, using "require" for ad-hoc debugging; error handling & creating custom errors with N/error; error handling across script types; debugging RESTlets; APM SuiteApp.

Examine ways to design robust solutions, including choosing the correct script type and entry points for a given scenario and promoting script reuse and modularity.

How to Study: Incorporating external JS libraries; creating and incorporating custom modules; benefits of including custom modules and external JS libraries; Client vs. User Event scripts; Scheduled vs. Map/Reduce scripts, Suitelet vs. Portlet scripts; when to use RESTlets; interrelationship between SuiteTalk SOAP/REST Web Services integration and script types.

Apply SuiteScript best practices across script types.

How to Study: SuiteScript Best Practices content in Help Center; impact of form customization on scripting; setText vs. setValue; script parameter usage; custom record type vs. scripted solution; JSDoc annotations.

Demonstrate how to build and modify user interfaces in SuiteScript.

How to Study: Frontend Suitelets; N/ui and its submodules; beforeLoad of User Event scripts; N/currentRecord in Client scripts; form-level vs. record-level Client scripts; online forms; N/url; N/redirect; context.UserEventType in User Event scripts; Client script entry points.

Use different approaches to interact with records in SuiteScript.

How to Study: SuiteScript Records Browser; N/record including Sublists, Custom Child Record Sublists; Subrecords; N/file; N/search, N/query, N/datasets, N/datasetLink; duplicate records using N/task.

Courses Addressing This Topic: SuiteScript 2.0: Extend NetSuite with JavaScript, SuiteScript 2.1: Working with the Query API and SuiteQL

Use different approaches to automate communications in SuiteScript.

How to Study: N/email, N/http, N/https, N/sftp.

Identify ways to ensure that scripts function properly across different environments.

How to Study: N/runtime, including working with script parameters and to check if features are enabled; N/config.

Demonstrate how to build SuiteApps to support internationalization and localization.

How to Study: N/currency; N/format including submodule N/format/i18n; N/recordContext; N/translation.

Demonstrate the use of Map/Reduce technology to efficiently process data.

How to Study: Interaction across Map/Reduce entry points, configuring getInputData, design patterns using map and/or reduce; how to use summarize.

SuiteFlow

Demonstrate how to configure workflow states, actions, and transitions to correctly react to triggers.

How to Study: Configuring states, standard actions, custom actions (workflow action scripts), workflow fields, state fields, conditions, and transitions; configuring transitions to react to triggers; Exit/Entry on transitions and triggers; formulas as used in conditions and actions; saved searches in conditions; scheduled actions.

Explain how to structure workflows to process on the client and server.

How to Study: Approval workflows with buttons and record locking; Before Record Load vs. Before Record Submit vs. After Record Submit; behavior of actions on client vs. server; Do Not Exit Workflow flag; configuration of Contexts and Event Types; sublists on client vs. server; workflows initiated by other workflows.

Examine how to optimize workflows for best performance and use debugging and troubleshooting strategies to identify performance issues.

How to Study: Modular design, including separation of logic between client & server; leveraging workflows initiated by other workflows; configuring workflow initiation; usage of Old Record; Set Field Value and chosen trigger; logging impacts; workflow execution log.

SuiteBuilder

Show how to customize Advanced PDF/HTML Templates, including scripting-focused scenarios.

How to Study: Process for generating a PDF; BFO; N/render for scripting; utilizing standard and custom data sources; FreeMarker as applied to NetSuite scenarios: processing sublists, record joins, field labels, formatting; date and number formatting and locale impacts; impact of company and user preference settings.

Demonstrate when and how to use custom forms, fields, records, segments, transactions, and the related security and performance implications.

How to Study: Scripting customizations; configuration of Sourcing & Filtering; configuration of Validation & Defaulting; Show in List; Store Value, security setup of custom fields and record types; sourcing & filtering as related to permissions; record locking; implications of inactivating/deleting custom record types; custom objects that have impact on the GL.

SuiteCloud Development Framework

Identify when to use Account Customization versus SuiteApp projects and show how to manage Account Customization projects.

How to Study: Account Customization vs. SuiteApp projects, including scope and limitations; manifest.xml; custom deployments using deploy.xml; details of working with Account Customization projects, including using the SuiteCloud CLI for Node.js; Java CLI.

Explain the SuiteCloud Development Framework processes to efficiently build and deploy SuiteCloud projects, including approaches to validation and testing.

How to Study: Working with customizations; record support in SDF; using SDF tools; sequencing of CLI commands for a given scenario; concepts of continuous integration and applicability to SDF; error handling and debugging in SDF, including where to look for errors.

Performance and Security

Demonstrate how to manage User Event scripts for maximum performance.

How to Study: Context filtering; event type filtering; order of script execution; User Event script interactions with other script types and technologies; User Event script entry points and performance considerations.

Explain strategies for using SuiteScript APIs and script types to enhance performance.

How to Study: See Optimizing SuiteScript Performance in the Help Center; decisions around using certain APIs (focus on N/record and N/record vs. N/search); N/cache; Client and server-side promises; client scripts and fieldChanged; limits across N/search, N/query and N/datasets; utilizing SuiteQL; usage units; incorporating N/task in designs; Script Deployment configuration; integration concurrency for RESTlets; SuiteCloud Processors; impact of SuiteCloud Plus licenses; module loading; APM SuiteApp.

Demonstrate proper security measures across SuiteScript and SuiteFlow technologies.

How to Study: Using minimally required role; Script Deployment configuration and Audience subtab, Execute as Role, Available without Login; credentials management; logging of sensitive data; client-side logging.