

Aspen SKUA™ Study Guide

Study Guide for Certification



Exam Scope for Aspen SKUA Modeling Reservoir Architecture User Certification (ACU-SKG01)

- ☐ Project Creation
- ☐ Data Import/Export
- ☐ Navigating the User Interface and Displaying Data
- ☐ Reviewing and Organizing Data
- ☐ SKUA Modeling Technology
- ☐ SKUA Structure & Stratigraphy Workflow:
 - Data Preparation
 - Fault and Horizon Modeling
 - Geologic Grid
- ☐ SKUA Simulation Grid Workflow

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Prove your Credibility

An Aspen SKUA Certified User possesses the essential knowledge and practical skills needed to set up projects, import and review data, and build 3D structural models and 3D geological and flow simulation grids. They have a strong understanding of SKUA modeling techniques and workflows and can effectively edit and enhance 3D structural models and grids to prepare them for property modeling and flow simulation.



Step 1: Take the Classes:

- SKG101 Fundamentals of Aspen SKUA – 1.5 days
- SKG201 Modeling Reservoir Architecture using SKUA – 3 days

AspenTech offers a variety of delivery methods in which you can take training.

- Register for [public training](#) (face to face or virtual)
- Register for [private training](#) (face to face or virtual)
- Subscribe to [eLearning](#) (on-demand)

Step 2: Review Scope and Objectives

This study guide covers all the objectives for the Aspen SKUA User Certification exam and serves as both a study tool and an on-the-job reference.

Step 3: Take the Exam: Aspen SKUA Modeling Reservoir Architecture User Certification (ACU – SKG01)

The total time for the certification exam is two hours.
The passing score is 70%.

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE
Project Creation	Aspen SKUA Project	Save a project and identify the components generated when saving a project
		Update add-ons
		Define project units
		Modify project units
	Preferences	Define the visual appearance of the Aspen SKUA window
Data Import/Export	Import data	Describe the import process
		Manage data in time and depth domains
		Import ASCII files
Navigating the User Interface and Displaying Data	Pages	Create and customize a page
	Views	Distinguish between the different view types in Aspen SKUA
		Identify the hidden views on a page
	Objects styles	Customize the display of objects in the view
	View display	Identify the well track template applied in a well section view
	Display Elements	Recognize which browsers are associated to specific data
Reviewing and Organizing Data	Features	Understand the notion of geologic features
	Organize Objects	Explain how data is organized in the Objects browser
		Group objects
	Regions	Create a dynamic region
	Property Types and Units	Understand what a property type is
		Change units to display data values

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE
SKUA Modeling Technology	SKUA Approach	Explain SKUA approach for building structural models
		Identify the benefit of using SKUA technology to build structural models and 3D grids in complex environments
		List the main types and purposes of grids that can be built using SKUA technology
		Identify the SKUA grid that is best suited for volume computations
SKUA Structure and Stratigraphy Workflow: Data Preparation and Selection	Workflow process	List the main steps to create a SKUA structural model and geologic grid
	Data Preparation: Stratigraphic Context	Identify which component(s) of the stratigraphic context is compulsory for building a SKUA model
		Define which information is contained in the stratigraphic column
		Identify the correct stratigraphic column for a model
		Manage stratigraphic context(s)
	Data Preparation: Selecting input data	Assign data to geologic features and specify modeling role
		Explain why data is not available from the workflow
		Use salt data to build the SKUA structural model
SKUA Structure and Stratigraphy Workflow: Fault and Horizon Modeling	Modeling process	Identify parameters impacting the computation time to build the structural model
	Fault Network and Fault Blocks	Define fault contact types
	Horizon modeling	Understand what data and information are honored by the horizon modeling algorithms
		Select the appropriate mis-tie strategy
		Recognize the impact of ignoring data around the faults on the model
		Understand the impact of horizon editing on the model
		Identify when to apply the refinement option

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE
		Understand what is needed to compute mismatch maps
		Explain the importance of paleo-coordinates computation
SKUA Structure and Stratigraphy Workflow: Geologic Grid	Geologic Grid	List the main characteristics of a geologic grid
		Define the resolution of a geologic grid property
		Edit the geologic grid azimuth and deformation mode
	SKUA model update	Update a SKUA model
Simulation Grid Workflow	Grid types	List the different types of grids that can be built in the Simulation Grid workflow
	Workflow process and outputs	Understand the requirements for building a flow simulation grid
		Determine what is the input to build a flow simulation grid
		Identify which fault configuration is suitable for geostatistical modeling with a flow simulation grid
		Explain how to limit the number of inactive cells in the flow simulation grid
		Understand which properties are computed by default on the flow simulation grid
	Gridding	Identify the non-uniform gridding techniques available in Aspen SKUA