

Aspen Geolog™ Determin Study Guide

Study Guide for Certification



Geolog Determin Expert User Certification Exam (ACEU-GEO01)

- ☐ Overview of Deterministic Petrophysics
- ☐ Frequency View
- ☐ Xplot View
- ☐ Xplot Functions
- ☐ Petrophysical Philosophy
- ☐ Parameter Picking
- ☐ Deterministic Analysis
- ☐ Multiwell Analysis
- ☐ Loglan
- ☐ Deterministic Uncertainty Analysis
- ☐ General Uncertainty

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Prove your Credibility

An Aspen Geolog Determin Expert Certified User has the knowledge and practical skills needed to perform deterministic petrophysical well evaluations, using the Deterministic modules available within Aspen Geolog.



Step 1: Take the Class: Deterministic Petrophysical Log Analysis using Aspen Geolog (GEO102) – 2 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)
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Step 2: Review Scope and Objectives

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

Step 3: Take the exam: Aspen Geolog Determin Expert User Certification (ACEU-GEO01)

The total time for the certification exam is two hours.

The passing score is 70%.

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE
Overview of Deterministic Petrophysics	General usage	Understand how to access Deterministic analysis modules in Aspen Geolog
	Generating log data using mathematical expressions	Identify the appropriate method for applying mathematical expressions to generate a log
		Explain how mathematical expressions are defined
		Understand how to use different functions
Frequency View	Working with Frequency View	Understand how Frequency View can be used
		Explain how data is displayed in Frequency View
		Identify how frequency plot properties can be modified
		Understand the purpose of Multiplot view
		Understand how to display statistical data
		Explain the purpose of the “Ghost This” option
		Describe the purpose of the “Transform Linear” option
Xplot View	Working with Xplot View	Understand what the Audit Trail is used for
		Identify how to access Xplot View
		Understand how to color data points
Xplot Functions	Working with functions in Aspen Geolog	Explain the purpose of a colormap
		Understand how to create or modify functions
		Explain how to create MACRO functions
		Identify how to define groups
		Identify how to calculate a curve
Petrophysical Philosophy	Creating and correcting logs for analysis	Specify the appropriate function to reconstruct a log
		Create a borehole and formation condition log
Parameter Picking	Performing parameter picking in Aspen Geolog	Understand how to perform borehole corrections
		Explain where picking parameters are stored
		Understand how to calculate shale volume and porosity
		Explain the purpose of parameter picking
Deterministic Analysis	Performing deterministic analysis with Aspen	Understand when to use a Picket plot
		Outline a typical deterministic analysis workflow
		Identify how to calculate permeability

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE
	Geolog	Explain the purpose of the Automatic Update on Change Feature
		Identify the output from sensitivity analysis
		Understand how to perform pay summary
Multiwell Analysis	Analyzing multiple wells	Explain how to work with multiple wells
		Understand how multiwell analysis is performed
Loglan	Using Loglan	Understand how to create and combine loglans
Deterministic Uncertainty Analysis	Performing deterministic uncertainty analysis in Aspen Geolog	Identify uncertainty distributions
		Explain how the Deterministic Uncertainty module works
General Uncertainty	Performing Monte Carlo uncertainty analysis	Understand how to access Monte Carlo mode
		Understand when to use Monte Carlo analysis