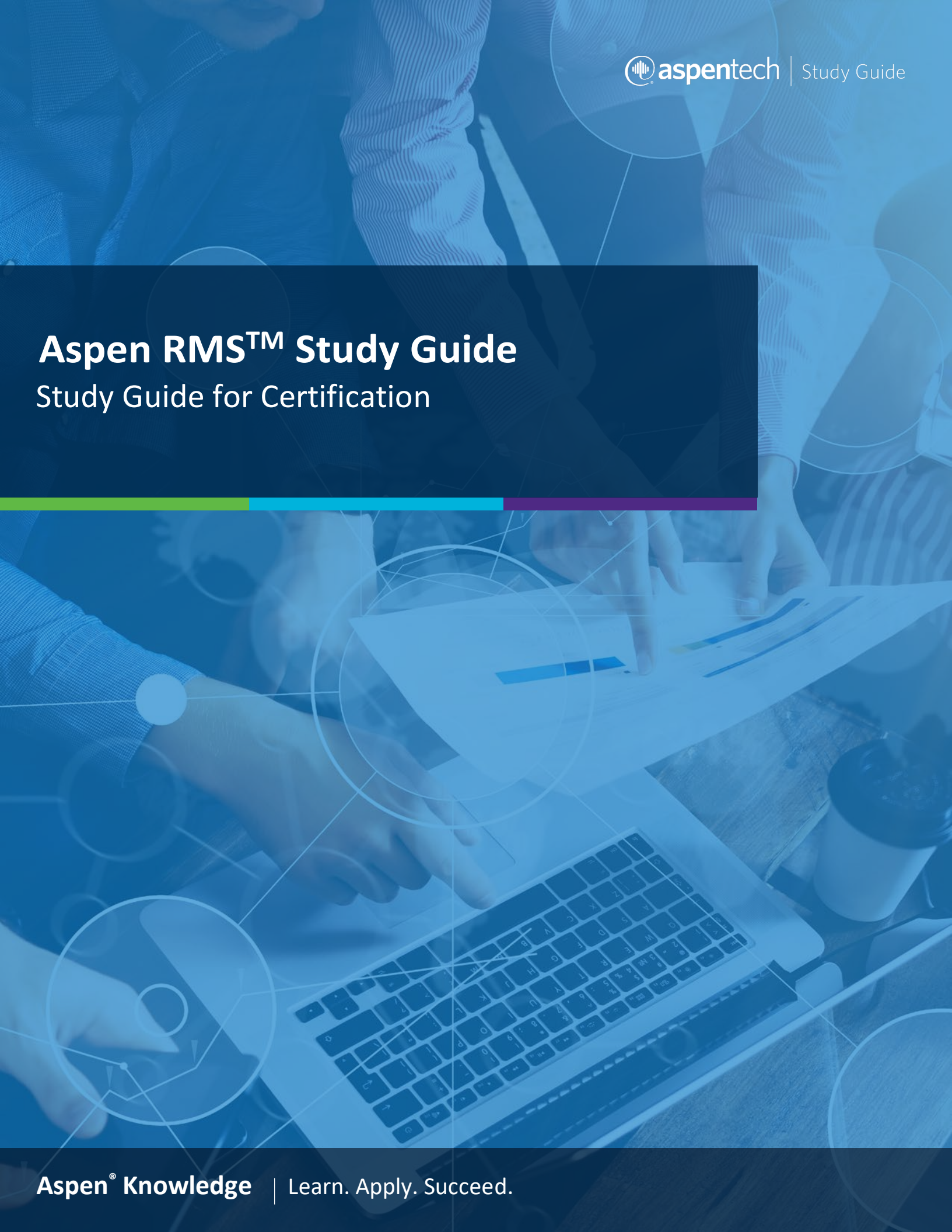

aspentech | Study Guide

# Aspen RMS™ Study Guide

## Study Guide for Certification

Aspen® Knowledge | Learn. Apply. Succeed.

## Prove your Credibility

An Aspen RMS Certified User has the essential knowledge and practical skills needed to set up projects, import, visualize and review data. They possess a broad understanding of key geomodeling processes, including model driven interpretation, building structural models, creating reservoir grids, and managing uncertainties. Additionally, they can perform data quality control, well blocking, property modeling, and volumetric assessments.

## Exam Scope for Aspen RMS User Certification (ACU-RMS01)

- ☐ Starting a New Project
- ☐ Importing, Visualizing and Editing Data
- ☐ Model Driven Interpretation
- ☐ Structural Modeling
- ☐ Grid Building
- ☐ Well Blocking
- ☐ Facies Modeling
- ☐ Petrophysical Modeling
- ☐ Volumetrics
- ☐ Workflow Management
- ☐ Uncertainty Management
- ☐ Upscaling for Simulation
- ☐ RMS API and RMS Plugins

### **Step 1**: Take the Class: Introduction to Aspen RMS (RMS101) – 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 RMS User Certification exam and serves as both a study tool and an on-the-job reference.

### **Step 3:** Take the Exam: Aspen RMS User Certification (ACU-RMS01)

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

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| SCOPE | TECHNICAL CONTENT | COMPETENCY OBJECTIVE FOR ASPEN RMS |
|---|---|---|
| Starting a New Project | Project Setup and Configuration | **Define** the project settings.<br>**Understand** the process of coordinate conversions in Aspen RMS.<br>**Explain** the horizon organization in the stratigraphic framework.<br>**Manage** stratigraphic columns. |
| Importing, Visualizing and Editing Data | Data Integration and Visualization | **Understand** how Aspen RMS stores seismic data.<br>**Display** seismic data in different planes for better interpretation.<br>**Manage** colormap settings.<br>**List** the different seismic data types that can be imported in Aspen RMS.<br>**Identify** common import formats for wellhead data.<br>**Explain** the functionality of the Log Operations dialog box.<br>**Identify** different view types and their purposes in Aspen RMS. |
| Model-Driven Interpretation | Seismic Interpretation and Automation | **State** the main advantage of using model-driven interpretation in Aspen RMS.<br>**Explain** the horizon mapping method used during model-driven interpretation.<br>**Identify** the tools available for horizon interpretation in Aspen RMS.<br>**Recognize** the types of data used for horizon interpretation in AspenRMS.<br>**Understand** how to use the Snap-to-Seismic tool. |
| Structural Modeling | Fault and Horizon Construction | **Explain** the process for creating a structural model in Aspen RMS.<br>**Identify** the tools used to review the fault model and their purposes.<br>**Understand** how to update a fault model.<br>**List** the pre-requisites for horizon modeling.<br>**Understand** the concept of horizon model.<br>**Explain** the purpose of isochore modeling.<br>**List** the outputs that can be extracted from a structural model. |
| Grid Building | Creating Grids | **Learn** the main purpose of grid building in Aspen RMS.<br>**List** the types of 3D grid that can be built in Aspen RMS and their purposes.<br>**Understand** how the Parameter Calculator is used.<br>**Comprehend** how regions are defined to partition the grid.<br>**Identify** the purpose of grid filters.<br>**Explain** differences between 3D grids. |

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|---|---|---|
| Well Blocking | Well Data Upscaling | **Grasp** the meaning and purpose of well blocking/upscaling.<br>**State** the main challenge when blocking data.<br>**Learn** how to resolve mismatches between zone logs and grid zones in blocked wells.<br>**Recognize** the reason for using bias logs.<br>**List** methods for performing quality control on upscaled well data. |
| Facies Modeling | Building and Analyzing Facies Models | **Recognize** depositional environments.<br>**Explain** the aim of pixel-based and object-based methods.<br>**Identify** the facies modeling methods available in Aspen RMS for pixel-based and object-based modeling.<br>**Learn** how to shape facies objects to follow azimuth trends.<br>**Recognize** the different types of variograms used in facies modeling.<br>**Define** and **understand** the recommended sequence for modeling properties<br>**Learn** how to use facies modeling methods. |
| Petrophysical Modeling | Reservoir Property Estimation | **Learn** the basics of petrophysical modeling and its purpose.<br>**Understand** the common challenges faced when creating petrophysical models.<br>**Explain** the difference between deterministic and stochastic modeling.<br>**Grasp** the importance of variogram models in petrophysical parameter modeling.<br>**Identify** why data may need to be detrended. |
| Volumetrics | Volume Calculation Techniques | **Understand** the key variables used in volumetric calculations.<br>**List** the outputs that can be generated by the Volumetrics job.<br>**Recognize** where to output maps in the Data tree for better organization.<br>**Identify** the different types of volumetric calculations available in Aspen RMS and their applications in reservoir modeling. |
| Workflow Management | Automating Modeling Processes | **Learn** the main function of the Workflow Manager in Aspen RMS.<br>**Understand** the applications of workflows in Aspen RMS.<br>**Understand** the applications of workflows in Aspen RMS. |

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|---|---|---|
| Uncertainty Management | Handling Uncertainty in Reservoir Models | **Learn** the main goal of managing uncertainty in reservoir models.<br>**List** the necessary steps for managing uncertainty in Aspen RMS.<br>**Understand** how and when to add uncertainties into a static reservoir model using the Workflow Manager in Aspen RMS.<br>**Identify** the tools for visualizing and comparing uncertainty scenarios.<br>**Understand** how to visualize the impact of uncertainty parameters on the results.<br>**Apply** the appropriate sequence for performing uncertainty management. |
| Upscaling for Simulation | Coarsening Data for Simulation Models | **State** the purpose of grid upscaling.<br>**Identify** which parameters are commonly upscaled in reservoir modeling.<br>**Comprehend** the appropriate sequence of steps for upscaling.<br>**Recognize** some of the challenges faced when upscaling data. |
| The RMS API and RMS Plugins | Automated Solution | **Learn** the main function of the RMS API.<br>**Recognize** the programming language used for scripting with the RMS API.<br>**Define** what are RMS Plugins and how they are being used. |