Aspen Plus ® (Sustainability Focus)

Study Guide for Direct Air Capture Process Modeling Certification Exam

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Exam Scope for Direct Air Capture Process Modeling Certification Exam-

- ☐ Aspen Custom Modeler Fundamentals
- ☐ Direct Air Capture

Grading

Grade	Weight
Multiple choice questions	90%
Lab task	10%
Total	100%

Prove Your Credibility

A Certified User has an in-depth understanding and practical skills required to build models and interpret results using Aspen Plus. Passing this exam will demonstrate your understanding of the sustainability process modeling concepts such as modeling of direct air capture with aqueous potassium hydroxide solution

Practice

AspenTech training is highly recommended though not required.
This guide contains 100% coverage of all objectives required for the certification exam.

Step 1: Take Class: Direct Air Capture Process Modeling with an Aqueous Absorbent (SUS-P2031; 1 Day)

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

- Register for either public training (face to face or virtual), request private training (face to face or virtual) or subscribe to eLearning (on-demand)

Step 2: Review Scope and Objectives

This guide contains 100% coverage of all objectives for the Direct Air Capture Process Modeling Certification Exam. You can use as both a study tool and an on-the job reference.

Step 3: Take Direct Air Capture Process Modeling Certification Exam

The total time for the certification exam is one hour.

Get Certified

After passing the exam you will receive an email to post your certificate and digital badge on social media, which is a cross-industry recognition of technical skills you may share on LinkedIn, as well as in your email signature. View the instructions on how to post your credentials on LinkedIn profile

Go to AspenTech University to register for AspenTech Training & Certification

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE
Aspen Custom Modeler Fundamentals	Physical Properties	**Add** Physical Properties to Aspen Custom Modeler
	Run Modes	**Designate** Run Mode
	Ports	**Recognize** the different port types in Aspen Custom Modeler
	Forms	**Add** different forms to a custom model
	Syntax	**Define** flowsheet constraints, scripts, and tasks with proper syntax
	Exporting Custom Model	**Save** a custom model to export to Aspen Plus/HYSYS
Direct Air Capture	Direct Air Capture Process Types	**Adsorbent-based**
		Aqueous Basic Solution Based
	Integration with Aspen Plus	**Create** Air Contactor model
		Deploy Air Contactor model into Aspen Plus