



Aspen Plus[®] (Sustainability Focus)

Study Guide for Natural Gas Carbon Capture Process Modeling Certification Exam



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 carbon capture process using chemical and physical solvents

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: [Carbon Capture Process Modeling](#) (SUS-P203; 3 Days)

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 Natural Gas Carbon Capture Process Modeling certification exam. You can use as both a study tool and an on-the job reference.

Step 3: Take Natural Gas Carbon Capture Process Modeling Certification Exam

The total time for the certification exam is one hour.

Exam Scope for Natural Gas Carbon Capture Process Modeling Certification Exam-

- Properties Environment
- Simulation Environment

Grading

Grade	Weight
Multiple choice questions	67%
Lab task	33%
Total	100%

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
Properties Environment	Component Lists	Add components used for CO2 absorption processes
		Components used as Physical Solvents
	Property Methods	Designate appropriate thermodynamics package
		Equations of State
	Carbon Capture	Steps of Carbon Capture Modeling
	Properties Tools	Data Regressions
	Component Properties	Electrolytic Systems
		Component Volatility
Simulation Environment	RadFrac	Phase Equilibrium
		Column HETP
		Column Efficiency
		RadFrac Rate Based
		Hydraulic Results
	Emissions	Scope 1 & Scope 2 Emissions
	Key Results	Activation Dashboard
		Transport Phenomena
		Global Warming Potential
		Aspen Knowledge Resources
		Stream/Block Results
	Utilities	Utility Usage
		CO2 Production in different blocks

	Carbon Tax	Carbon Tax Rate
	Flowsheet Tools	Scope 1 & Scope 2 Emissions
		Design Specifications