Aspen HYSYS ® (Sustainability Focus)

Study Guide for Natural Gas Carbon Capture Process Optimization Certification

Prove Your Credibility

A Certified User has an in-depth understanding and practical skills required to build models and interpret results using Aspen HYSYS. Passing this exam will demonstrate your understanding of the sustainability process modeling concepts such as modeling of acid gas treatment and energy efficiency optimization of such processes.

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: Optimize Energy Usage and Minimize Emissions in Carbon Capture Processes (SUS-H101; 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 Optimization certification exam. You can use as both a study tool and an on-the job reference.

Step 3: Take Natural Gas Carbon Capture Process Optimization Certification

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

Exam Scope for Natural Gas Carbon Capture Process Optimization Certification Exam:

Properties Environment

Simulation Environment

Grading

Grade	Weight
Multiple choice questions	87.5%
Lab task	12.5%
Total	100%

SCOPE	TECHNICAL CONTENT	Competency Objective
Properties Environment	Component Lists	**Add** components to the component list
	Property Methods	**Designate** appropriate thermodynamics package
Simulation Environment	Emissions	**Setup** carbon tax/fee rate
		Identify Scope 1 & Scope 2 Emissions
		Define Emissions Data Source
	Energy Optimization	**Define** utilities
		View utility usage in blocks
	Key Results	**Activation Dashboard**
		Transport Phenomena
		Global Warming Potential
		Aspen Knowledge Resources
		Stream/Block Results