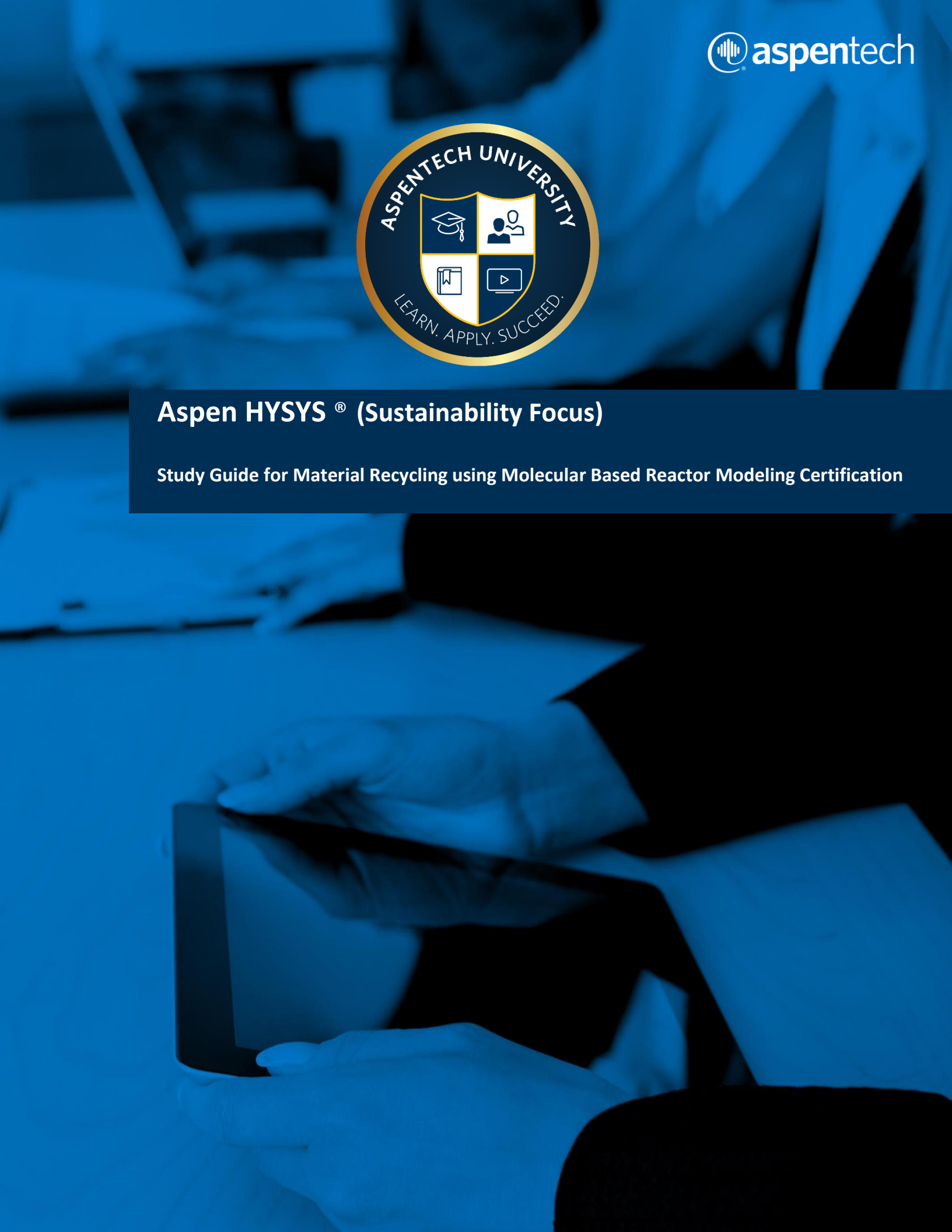

Aspen HYSYS ® (Sustainability Focus)

Study Guide for Material Recycling using Molecular Based Reactor Modeling Certification

aspentech | University

Learn. Apply. Succeed.

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 molecular based modeling of oxygen removal process to convert waste cooking oil into green diesel.

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: Model Production of Green Fuel from Waste Oil (SUS-H208; 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)

Exam Scope for Material Recycling using Molecular Based Reactor Modeling Certification

- ☐ Properties Environment
- ☐ Simulation Environment

Step 2: Review Scope and Objectives

This guide contains 100% coverage of all objectives for the Material Recycling using Molecular Based Reactor Modeling certification exam. You can use as both a study tool and an on-the job reference.

Step 3: Take Material Recycling using Molecular Based Reactor Modeling Certification.
The total time for the certification exam is one hour.

Grading

Grade	Weight
Multiple choice questions	65%
Lab task	35%
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	**Characterize** key chemical compounds involved in green fuel conversion processes
	Property Methods	**Designate** appropriate thermodynamics package
Simulation Environment	Molecular Based Reactor	**Model** hydroprocessing and hydrotreating reactors
	Emissions	**Identify** Scope 1 & Scope 2 Emissions
		Setup Carbon Tax Rate
		Calculate CO_2 Emissions Report
	Key Results	**Final Product Specs**
		Activation Dashboard
		Global Warming Potential
		Aspen Knowledge Resources
		Stream/Block Results