Aspen Shell & Tube Exchanger ™ (Sustainability Focus)

Study Guide for Heat Exchanger Energy Efficiency Certification Exam

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Learn. Apply. Succeed.

Exam Scope for Heat Exchanger Energy Efficiency certification

- ☐ Introduction to EDR
- ☐ Heat Exchanger Modeling

Grading

Grade	Weight
Multiple choice questions	70%
Lab task	30%
Total	100%

Prove Your Credibility

A Certified user has an in-depth understanding and practical skills required to design, rate, or simulate a shell and tube heat exchanger using Aspen Exchanger Design & Rating. Passing this exam will demonstrate your skills in rigorously sizing and rating shell and tube exchangers to help optimize heat exchanger designs to achieve sustainability goals.

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: Design and Rate a Shell and Tube Heat Exchanger (SUS-E101) – 2 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 guide contains 100% coverage of all objectives for the Heat Exchanger Energy Efficiency certification exam. You can use as both a study tool and an on-the job reference.

Step 3: Take Heat Exchanger Energy Efficiency 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
Introduction to EDR	Calculation Modes	**Recognize** the features and calculation types available
		Provide required process data input
	Physical Properties	**Provide** physical properties
		Import physical property data from other programs
	Exchanger Geometry	**Review** the principal mechanical components associated with the construction of shell and tube heat exchangers
Heat Exchanger Modeling	Aspen Plus	**Implement** Aspen EDR Software in an Aspen Plus Simulation
	Aspen HYSYS	**Implement** Aspen EDR Software in an Aspen HYSYS Simulation
	Key Results	**Warnings & Messages**
		Thermal/Hydraulic Summary
		Mechanical Summary
		Calculation Details