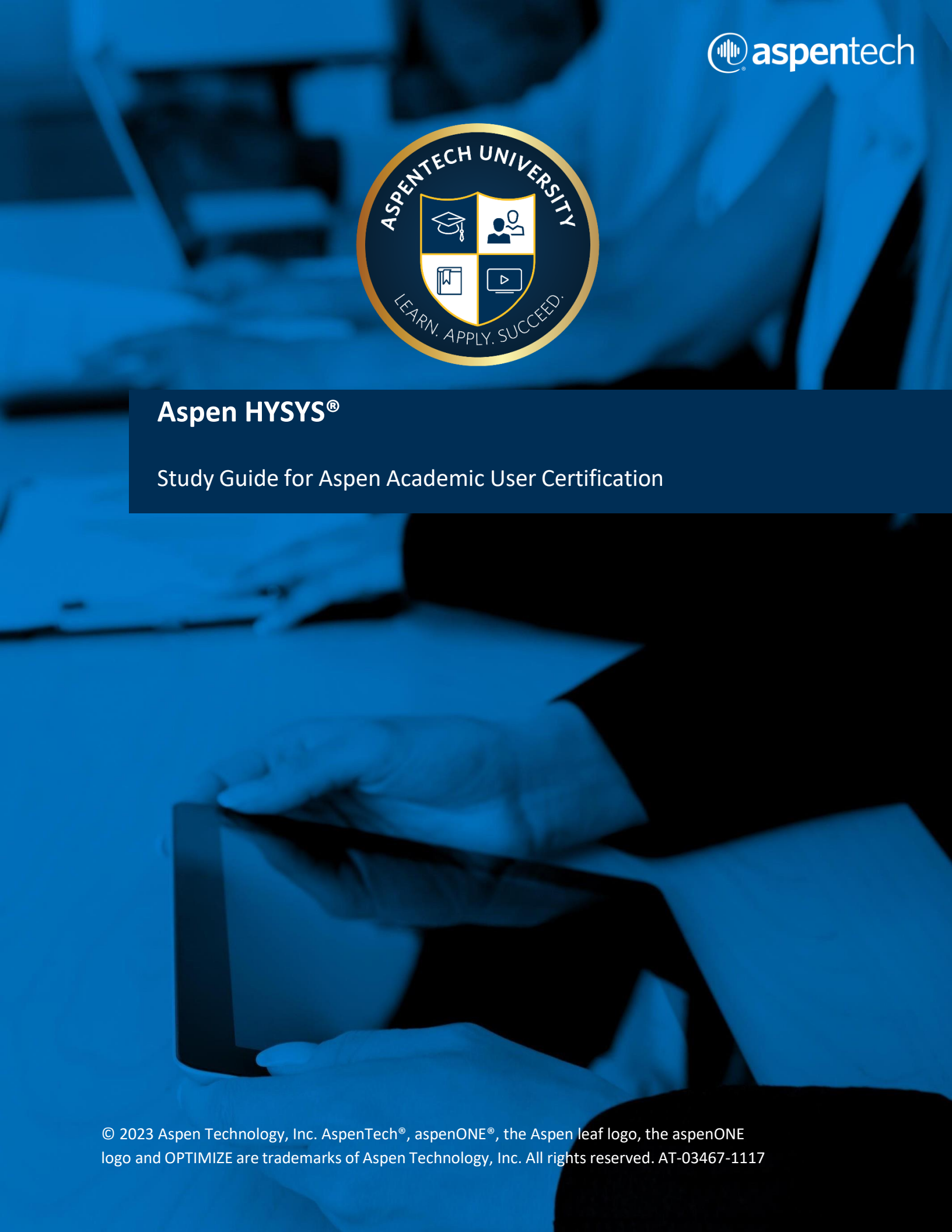

Aspen HYSYS®

Study Guide for Aspen Academic User Certification

Prove Your Credibility

An Aspen HYSYS Academic Certified User demonstrates skills in building process simulations including defining the properties environment, developing flowsheets with unit operations, and utilizing available tools for analysis and reporting. This person also demonstrates understanding of topics such as pipe segments with flow assurance, adjust and recycle operations, and troubleshooting in HYSYS.

Practice

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

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

Grading

Grade	Weight
Multiple choice questions	100%

Exam Scope for Aspen HYSYS

□ Properties Environment
□ Simulation Environment
□ Reporting
□ Troubleshooting

Scope	Competency Objective for Aspen HYSYS
Explore Properties Environment	**Create** a component list and **identify** the different component databases available.
	Add hypothetical components
	Identify the different property methods databases available and **define** a fluid package.
Explore Simulation Environment	**Recognize** the default unit sets and **Customize** unit sets
	Identify transferring process information and objects options
	Configure and customize user preferences, options and default settings and **Illustrate** case management options
	Create and **install** a template file
	Identify various logical operations available
	Identify the key differences in the three separator operations
	Optimize the simulation by using adjust operation and other logical operations
	Identify various heat transfer operations
	Describe the different heat exchanger models
	Analyze the performance of the heat exchanger
	Identify the heat transfer operations that can be integrated with Aspen Exchanger Design and Rating (EDR) tools
	Recognize pressure drop correlation options for different phases
	Identify different heat transfer options for pipe segment
	Identify different flow assurance for pipe segment
	Build a piping network using pipe segments
	List the available column templates
	Determine parameters required to solve a column and summarize the method to modify stage efficiencies and the different efficiency types available.
	Identify different types of column specifications available
	Analyze the Degrees of Freedom (DOF) of different column templates
	Identify the side operations available to be added to a column
	Identify four case study types and their differences
	Customize properties/correlations for all streams using Correlation Manager
	Monitor the key process variables of any type in the simulation by using Data Table
	List the different stream analysis types
	Identify the different ways to add the stream analysis

	Perform stream analysis to acquire more stream information
	Identify four case study types and their differences
	Identify case study reporting tools
	Monitor the key process variable response to other changes in process using case study
	List the common reporting options
	Identify what kind of reports can be added to the flowsheet
	Identify the ways of exporting workbook reports
Troubleshooting	**Recognize** the various methods of troubleshooting flowsheet, columns, and other unit operations.
	Explain the Consistency Error table