



2024 HVAC Training Courses



Welcome to Air Flow

2024 Training and a Trip Back to High School English

Hey there, Air Flow course content follower.

For 2024, I thought it would be fun to have a literary theme for each class. From ‘Frankenstein’ to ‘1984’ to ‘Around the World in 80 Days’.

Take a moment and try to picture yourself back in freshman English. If you were in honors English, maybe you were trying to prove you were the sharpest cat in the room.

For the rest of us, we were trying to balance our social anxiety and our need to participate in class. Maybe, with all that balancing, the point of the class got away from us.

Then again, at one point or another, a book hit home. You learned a fundamental lesson, your world turned sideways, and you became an ever-so-slightly different (better?) person for it.

Our 2024 classes will also cover several fundamentals, such as AHRI testing, duct leakage and electrical for HVAC. And for fun, there is a loose connection between the theme of a class and a book you may have read in high school.

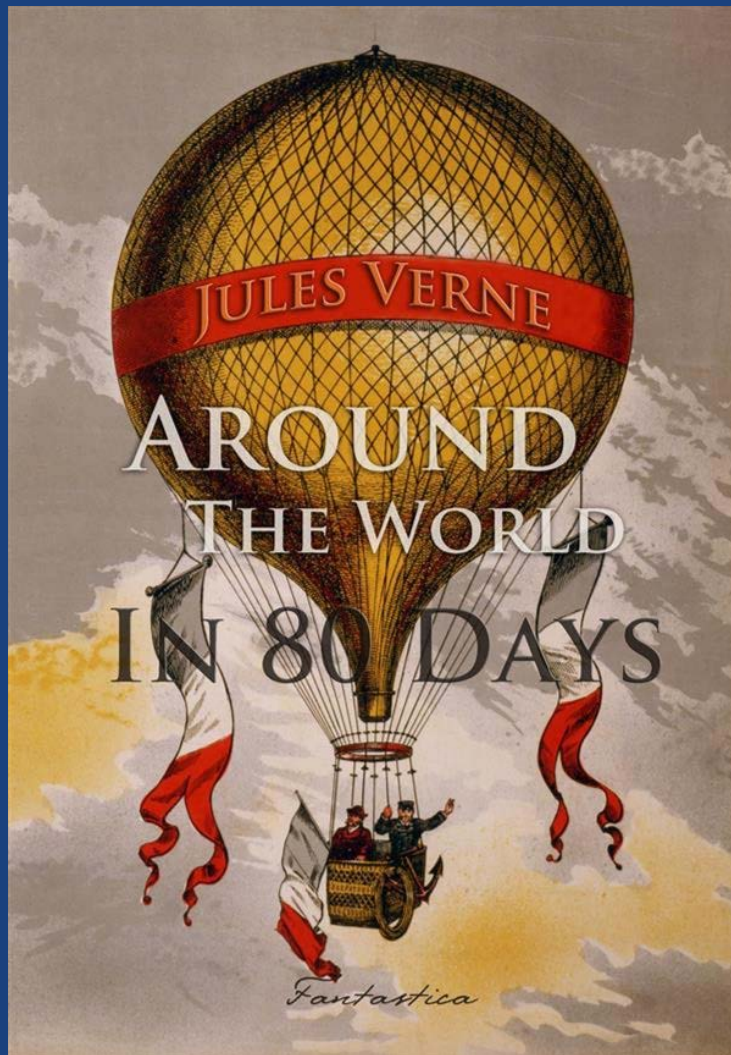
All the classes contain an HVAC itch that I want to scratch. Turns out all my trial-and-error moments have morphed into nuggets of wisdom for Air Flow’s course curriculum. We’ve even incorporated a few of those lessons I wish I knew that I didn’t.

Our goal is for these classes to create changes in the way you think and act as well.

See you in 2024.

Tom Gelin
Air Flow, Inc.

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Class #1

Duct Leakage for Engineers



DATE: FEB 20, 2024
10:00 AM to 12:00 PM

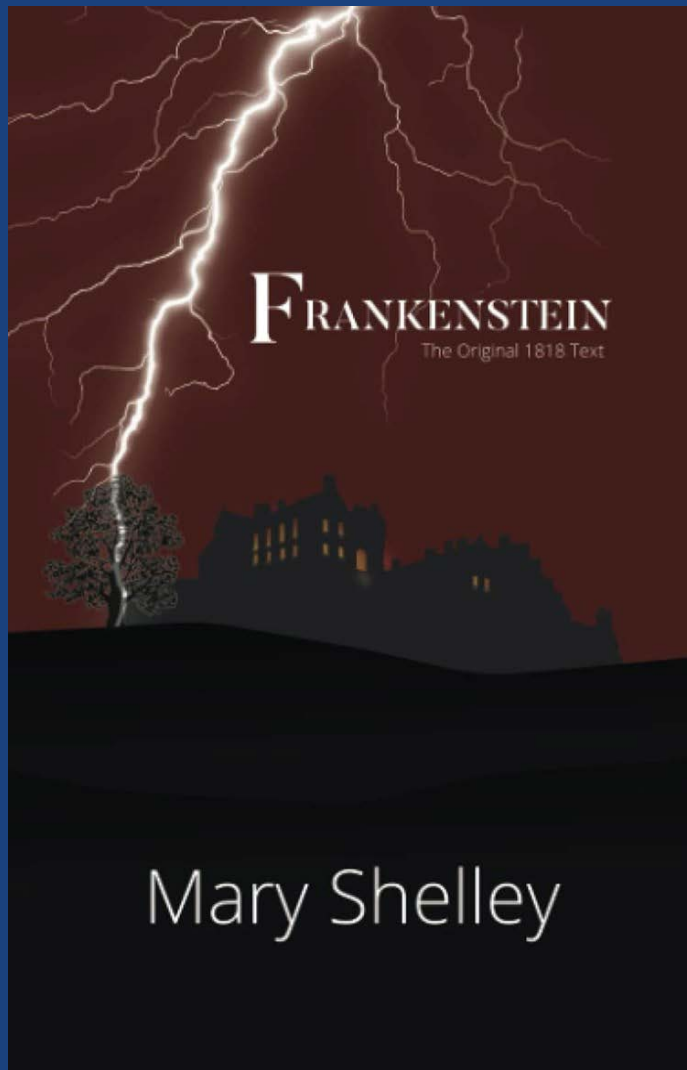
CHALLENGE: Phileas Fogg, the balloon traveler from *Around the World in 80 Days*, knows a thing or two about preventing leakage. His survival depended on it. In HVAC, you may not fall from 7,000 feet, but it's still vital to the success of your project.

WHO'S IT FOR: Engineers who want to understand the details and are interested in saving every cfm of filtered, conditioned air that they have.

SUBJECTS COVERED: Indoor and outdoor, high- and low-pressure duct systems and the accessories and components that cause leakage.

SUBJECT LENGTH: 2 hours
PDH/CEU: 2

MANUFACTURER REPRESENTED: Therma duct, Koolduct, and Sheet Metal & Air Conditioning Contractors' National Association (SMACNA)



Class #2

Electricity for Dummies Mechanicals



DATE: APR 16, 2024
10:00 AM to 12:00 PM

CHALLENGE: Victor Frankenstein is building his lab. He's not so worried about the 7' giant he's bringing back to life. He's more concerned about not getting electrocuted.

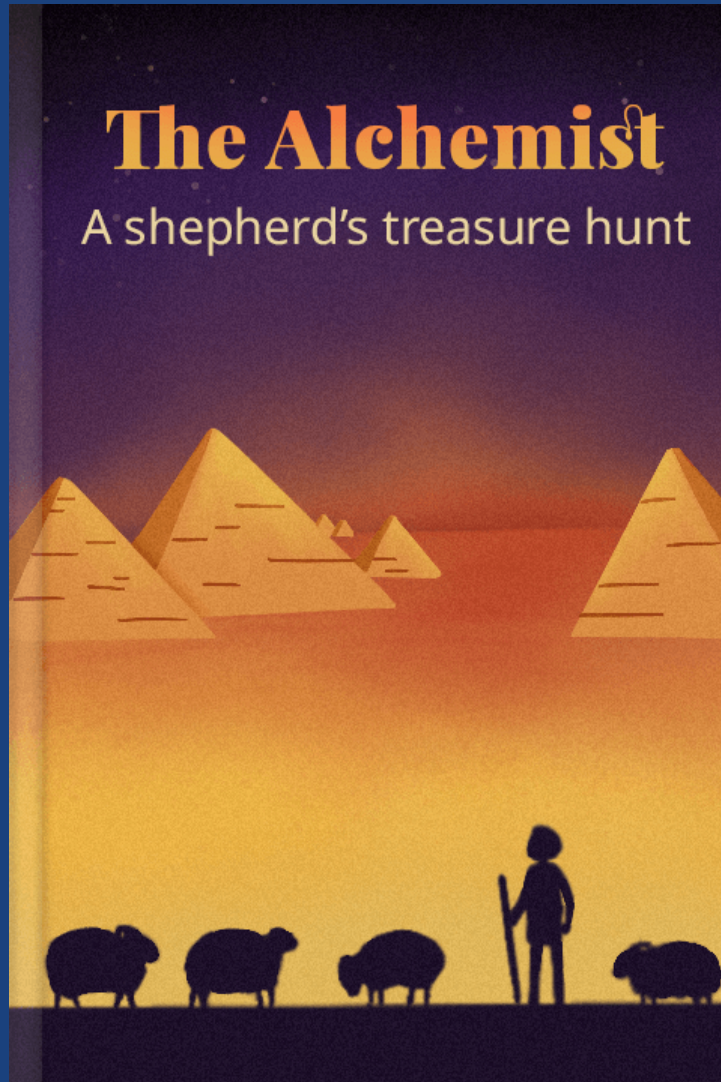
WHO'S IT FOR: I'll bet most of you. 😊

SUBJECTS COVERED:

1. Basics of electricity and distribution
2. Overcurrent protection, fuses, circuit breakers and sizing
3. Short circuit current ratings, system coordination and arc flash ratings
4. Basics of power quality or grounding of electrical systems

SUBJECT LENGTH: 2 hours
PDH/CEU: 2

MANUFACTURER REPRESENTED: Ring & DuChateau's Senior Electrical Partner, Chris Ulm



Class #3

Antec Controls and the Science of Air Flow Control and Measurement



**DATE: MAY 14, 2024
10:00 AM to 12:00 PM**

CHALLENGE: Santiago, the protagonist in *The Alchemist*, is armed with a beginner's mindset. He is guided by sages who encourage him to know himself. Through his journey, he comes across others who skip important steps and lose their way. You are faced with the same choice. Will you skip the steps, follow the conventional wisdom, or learn for yourself? Will you turn your own lead into gold?

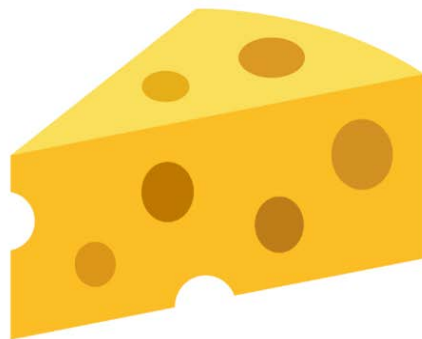
WHO'S IT FOR: Healthcare, lab, and high-performance system engineers

SUBJECTS COVERED: Controls of specialty terminals, venturis via pressure and air flow measurement

SUBJECT LENGTH: 2 hours
PDH/CEU: 2

MANUFACTURER REPRESENTED: Antec Controls

Who Moved My Cheese?



SPENCER JOHNSON

Class #4

Industry Testing Standards of HVAC Equipment (AMCA, AHRI, AMCA Sound)



DATE: JUN 18, 2024
10:00 AM to 12:00 PM

CHALLENGE: There is a difference between expectations and reality. Are you the type of person to lament a loss or embrace reality? Some mice starve, bitterly awaiting the arrival of their expected cheddar. HVAC testing creates the same type of expectation, often with disappointing realities.

WHO'S IT FOR: The entire industry

SUBJECTS COVERED: Test setups for lots of equipment. Fans, grilles, terminal boxes, silencers, panels, dampers, louvers, life safety, you name it.

SUBJECT LENGTH: 2 hours
PDH/CEU: 2

MANUFACTURER REPRESENTED: Price Industries, Loren Cook, Ruskin, among others

THE BOOK OF
GENESIS
BIBLE

CANCELLED

Class #5

JUL 16, 2024
9 AM to 12:00 PM

**Create
Own
Government
Supported Energy
Project**



CHALLENGE: In *The Bible*, in *Genesis*, God speaks the world into existence. With the help of the IRA and Focus On Energy, you can speak an energy retrofit into existence for your customer.

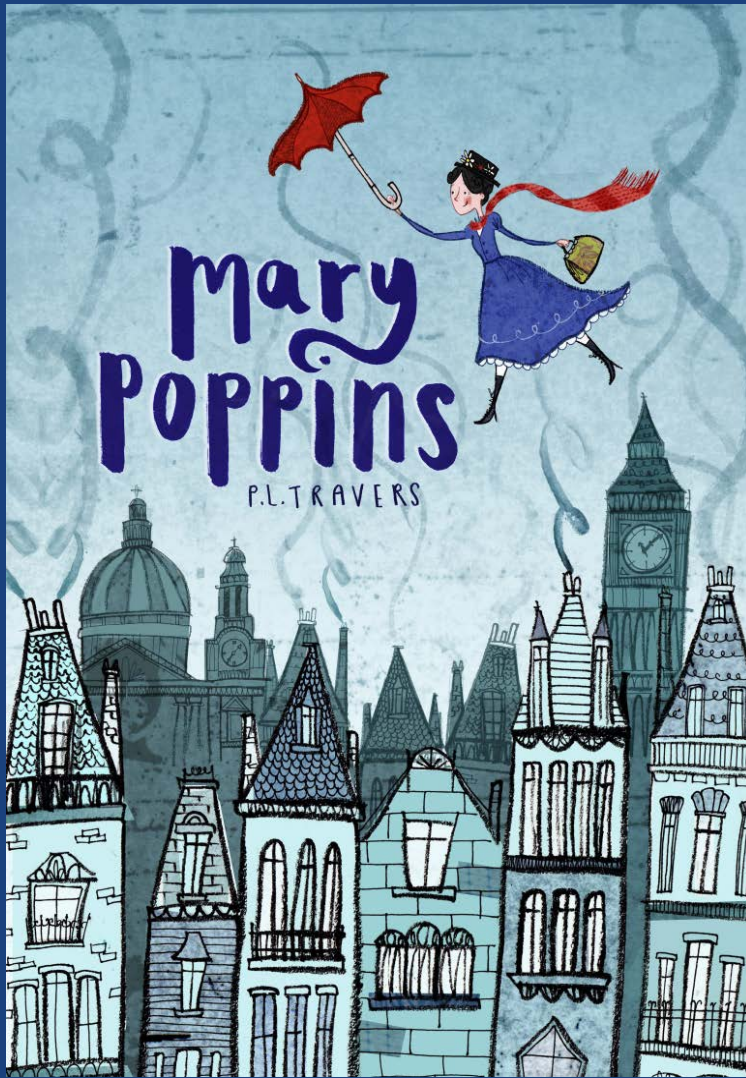
WHO'S IT FOR: Creationists and agnostics alike

SUBJECTS COVERED:

1. Heat pump and weatherization rebates for residential
2. How to go about getting incentives for existing commercial buildings through the IRA
3. Systems that will get customers to the incentive

SUBJECT LENGTH: 2 hours
PDH/CEU: 2

MANUFACTURER REPRESENTED: TBA



Class #6

Magically Clean Up Your Rooftop Selections



DATE: SEP 10, 2024
10:00 AM to 12:00 PM

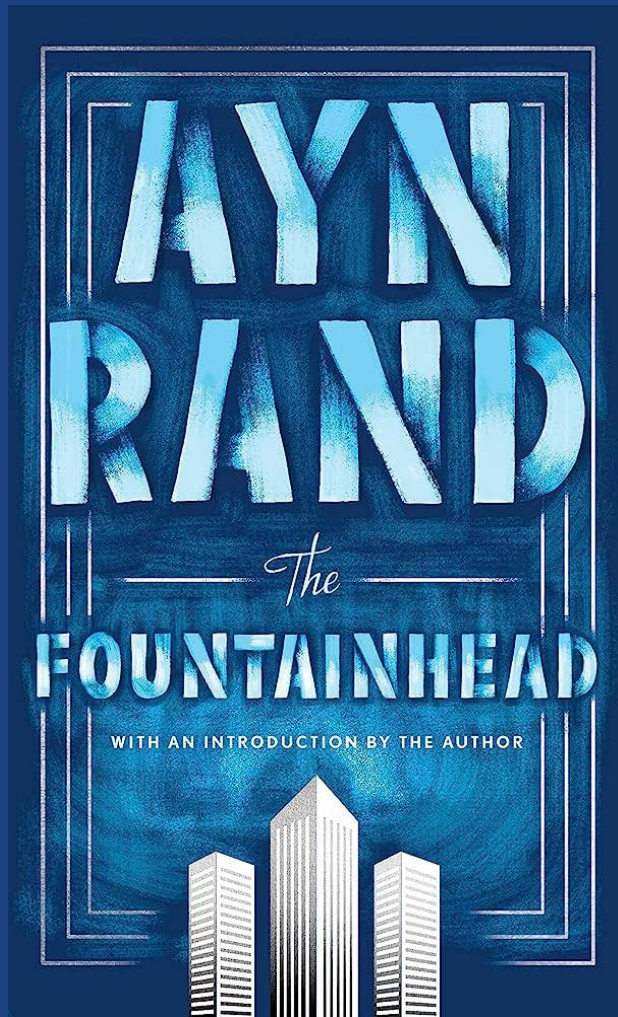
CHALLENGE: Picture Mary Poppins gently dropping from a rooftop, guided by her umbrella. Conversely, the reason she is up there isn't fun, toiling as a chimney sweep. You may be in the same boat, preferring to avoid the dirtiness of a rooftop selection. Rest assured; we'll turn it from a chore to something magical once again.

WHO'S IT FOR: Anyone who picks RTUs

SUBJECTS COVERED: Efficiency standards, economics of RTUs by size, and the accessories that can make or break your project

SUBJECT LENGTH: 2 hours
PDH/CEU: 2

MANUFACTURER REPRESENTED: Tempmaster



Class #7

Non-conformist Ventilation



DATE: OCT 22, 2024
10:00 AM to 12:00 PM

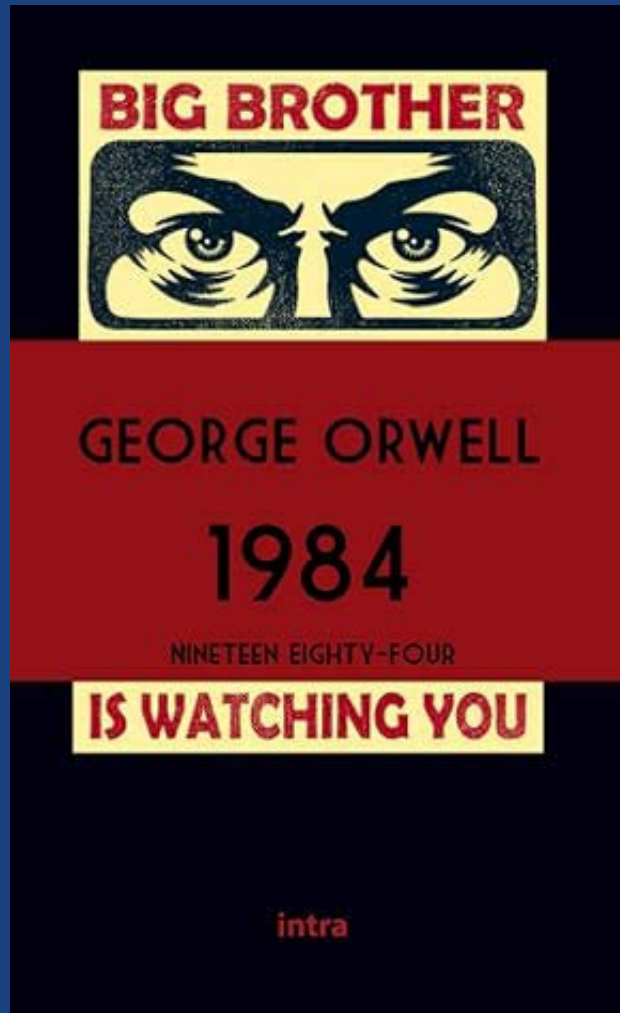
CHALLENGE: Howard Roark didn't follow the rules. Something about his buildings appealed to the occupants. Conversely, former classmate Peter Keating knew how to win clients but didn't love architecture. He loved money and status. *The Fountainhead* articulates a story about doing the right thing versus doing the easy thing. Which character are you? Incidentally, your architect customers love this book, you should read it.

WHO'S IT FOR: HVAC storytellers and their support teams

SUBJECTS COVERED: First principles (heat rises) and the applications of displacement and stratified systems

SUBJECT LENGTH: 2 hours
PDH/CEU: 2

MANUFACTURER REPRESENTED: Price Sustainable



Class #8

Next Generation Terminal Box Offering



DATE: DEC 3, 2024
10:00 AM to 12:00 PM

CHALLENGE: Your client wants a central geothermal system, but the maintenance staff wants VAV boxes because, well, that's what they want. Now you've got a low water temperature to deal with, so there's more VAV box coil rows, extra fan horsepower, and more noise. Sounds like a recipe for a lot of submittal review!

WHO'S IT FOR: Consulting engineers and design build contractors who want to optimize their VAV systems.

SUBJECTS COVERED: Price's new terminal box lineup built specifically to optimize performance for low water temperature systems. Presentation covers new Price models never seen before!

SUBJECT LENGTH: 2 hours
PDH/CEU: up to 2

MANUFACTURER REPRESENTED: Price Industries



8355 West Bradley Road
Milwaukee, WI 53223

P: 414-351-1999

F: 414-351-1933

www.airflowreps.com

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