

# Elevator Troubleshooting & Repair

Study guide aimed at technicians to help prevent them getting in over their heads.

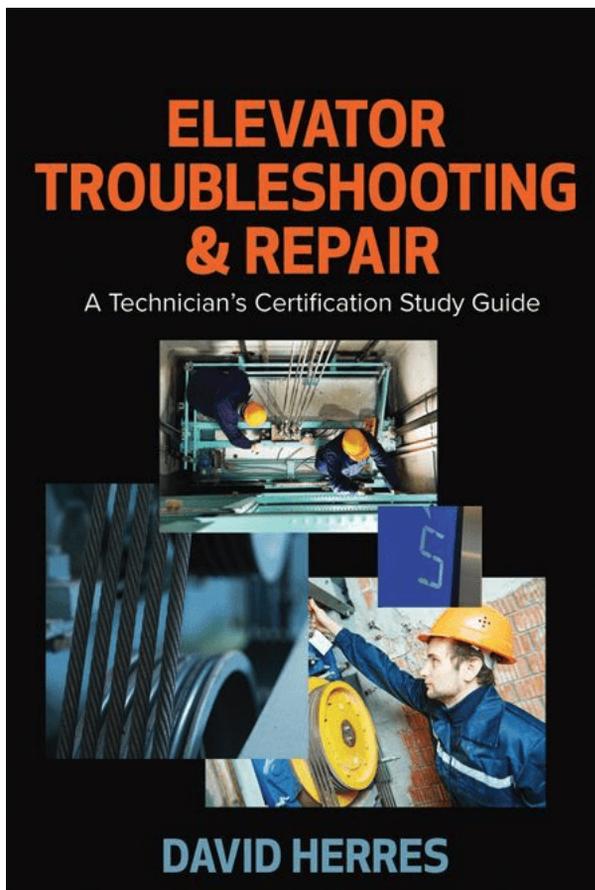
by Lee Freeland

David Herres' new book, *Elevator Troubleshooting & Repair: A Technician's Certification Study Guide*, was recently published by Industrial Press, Inc. and made available on [elevatorbooks.com](http://elevatorbooks.com) and other websites. The 256-page hardcover book begins with an introduction for those thinking of entering the industry as technicians. Herres advises on what can be expected and details the licenses needed, as well as the codes that must be followed in the U.S., including the *National Electrical Code* and ASME A17.1. Next is a list of important facts to know about elevators, including a glossary of the most common industry terms.

"History" begins the book proper to give readers perspective on the industry and advancements in technology through today, plus possible future advancements. Next, types of elevators are detailed, followed by an explanation of how to maintain electric motors (both AC and DC). Variable-frequency drive troubleshooting and diagnostic procedures come next,

then advanced motor repair and troubleshooting of complete systems and tools/instruments. Measurement of and ways to improve power quality follow. Finally, there are chapters each on the overall elevator system, motion controller, and connected systems and how they work together.

The goal of the work is to cover everything a student or current technician needs to know to perform elevator diagnosis, maintenance, troubleshooting and repair. It also details the knowledge a technician must have to properly service elevators in various situations. Emphasis is placed on safety interlocks and the overall elevator system. The book includes multiple-choice questions for students working toward their elevator mechanic's licenses. Ten such questions follow each of the 10 chapters, and Appendix A provides answers. Appendix B details electrical laws and equations, and a comprehensive index rounds out the guide.



"Elevators move large numbers of people up and down each day, mostly without incident, thanks to a strongly developed system of safety measures and the work of highly trained and experienced professionals," Herres explains in his latest book.

## About the Author



A regular contributor to ELEVATOR WORLD as an author of Continuing Education articles, David Herres holds a New Hampshire Master Electrician's license and has worked as an electrician in the northern part of that state for many years. He also

holds a BA in English Literature and Composition from Hobart College of Geneva, New York. He has focused on writing since 2006, also contributing to such magazines as *Electrical Construction and Maintenance*, *Cabling Business*, *Electrical Business*, *Nuts and Volts*, *PV Magazine*, *Electrical Connection*, *Solar Connection*, *Solar Industry Magazine*, *Fine Homebuilding Magazine* and *Engineering News-Record*. Herres' other published books are:

- ◆ *2011 National Electrical Code Chapter by Chapter*
- ◆ *Troubleshooting and Repairing Commercial Electrical Equipment*
- ◆ *The Electrician's Trade Demystified*
- ◆ *The Homeowner's DIY Guide to Electrical Wiring* 