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## *Heating Systems Troubleshooting & Repair: Maintenance Tips and Forensic Observations*

**EXTEND EQUIPMENT LIFE AND  
REDUCE UNPLANNED MALFUNCTIONS.**



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Most of the work technicians routinely perform is in maintaining *existing* equipment as opposed to installing new systems. The procedures and visual observation conditions presented in this title will enable technicians to perform their tasks more effectively. By knowing how the equipment is designed, built, and how the materials behave over time, they will be better able to execute a maintenance program extending equipment life and reducing unplanned malfunctions. This book's emphasis is on implementing these actions correctly and in a timely basis so that equipment experiences an increase in "life expectancy," reliability, more efficient energy performance, and a reduction in the possibility of future failures and liability. While the main focus is on equipment installed in residential homes, the procedures detailed certainly apply to larger commercial heating equipment as well.

### **FEATURES**

- Addresses troubleshooting and repair actions on residential heating equipment and controls.
- Detailed procedures cover visual observations and inspection of impending equipment failure as well as necessary preventive maintenance actions.
- Includes icons throughout with maintenance tips and forensic observations.
- Presents visual equipment inspection observations as well as step-by-step procedures for preventive maintenance, along with numerous photographs of failed equipment detailing the consequences of inadequate preventive maintenance.
- An affiliated website ([www.certuseheatingsystems.com](http://www.certuseheatingsystems.com)) contains supporting video footage of demonstrations of failed equipment and proper/improper maintenance procedures. Color photographs of illustrations in the book will also be available on the website.

— more —

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## **ABOUT THE AUTHOR**

**John Certuse** is a Registered Professional Engineer, Certified Fire and Explosion Investigator, and President of The National Academy of Forensic Engineers. A graduate of The Massachusetts Maritime Academy, he is a licensed Pipefitter and Oil Burner Technician and has provided failure analysis and fire investigation causes of equipment for the legal and insurance industries since 1990. He has contributed articles to the *Oil Heating Journal*.

### ***Heating Systems Troubleshooting & Repair: Maintenance Tips and Forensic Observations***

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