

## Maintenance Control Program

by John Kashak

This article has been adapted from *Maintenance on New Equipment Designs – Application of the Maintenance Control Plan to Machine-Room-Less Elevators*, a new book from John Kashak available in May 2010 from ELEVATOR WORLD.

### Learning Objectives

After reading this article, you should have learned about:

- Maintenance control programs (MCPs) and what they entail
- The importance of scheduled interval maintenance
- How interval maintenance should be scheduled
- What check charts are and what they do
- Applicable components and where a list of them can be found
- What maintenance records include and where they should be located
- Code data plates
- Jumper control programs
- Critical operating circuits
- The importance of cleaning and housekeeping in the field

A section in the code for maintenance has existed since the first code was published<sup>1</sup> in 1921. With years of experience, expanding this section had to consider customary maintenance methods, new maintenance methods and the changing technology of equipment. One difficulty was determining how many requirements were enough and how to provide requirements for documentation that maximized the safety of elevator personnel and users. The code is an evolving document and still contains some inconsistencies, which over time will be interpreted and changed. However, it will ensure a minimum level of safety when the conveyance conforms to it.

As maintenance items became more numerous in the code, they converged into a maintenance program. The present language specifies an MCP and is performance and prescriptive based. Since it is in the code and required for existing conveyances<sup>2</sup>, when a jurisdiction adopts the ASME A17.1b-2003 addenda and later codes, the MCP is required and must be in place for each conveyance. This is the framework all elevator personnel

should use when performing maintenance, inspections, tests, repairs, replacements and adjustments. Below are the specific requirements with some explanation.

#### A17.1a-2008

**8.6.1.2.1** A written Maintenance Control Program shall be in place to maintain the equipment in compliance with the requirements of 8.6.

"In place" does not require that the entire MCP be on the job. Currently there are differing interpretations within the industry of what this requirement mandates; this book [Maintenance on New Equipment Designs, ©2010] will serve as a starting point upon which to build.

The entire program consists of subcomponents 8.6.1.2.1(a)(1) through 8.6.1.2.1(a)(4), as elaborated below:

**8.6.1.2.1(a)** The Maintenance Control Program shall consist of but not be limited to:

(1) examinations, maintenance, and tests of equipment at scheduled intervals in order to ensure that the installation conforms to the requirements of 8.6. The maintenance procedures and intervals shall be based on:

Continued



**Value: 2 contact hours  
(0.2 CEU)**

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# Elevator Maintenance Control Program

**Huangqi Zhang**



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## **Table of Contents Elevator Maintenance Control Program**

1. Understanding the eBook Elevator Maintenance Control Program
  - The Rise of Digital Reading Elevator Maintenance Control Program
  - Advantages of eBooks Over Traditional Books
2. Identifying Elevator Maintenance Control Program
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Elevator Maintenance Control Program
  - User-Friendly Interface
4. Exploring eBook Recommendations from Elevator Maintenance Control Program
  - Personalized Recommendations

- Elevator Maintenance Control Program User Reviews and Ratings
- Elevator Maintenance Control Program and Bestseller Lists
- 5. Accessing Elevator Maintenance Control Program Free and Paid eBooks
  - Elevator Maintenance Control Program Public Domain eBooks
  - Elevator Maintenance Control Program eBook Subscription Services
  - Elevator Maintenance Control Program Budget-Friendly Options
- 6. Navigating Elevator Maintenance Control Program eBook Formats
  - ePub, PDF, MOBI, and More
  - Elevator Maintenance Control Program Compatibility with Devices
  - Elevator Maintenance Control Program Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Elevator Maintenance Control Program
  - Highlighting and Note-Taking Elevator Maintenance Control Program
  - Interactive Elements Elevator Maintenance Control Program
- 8. Staying Engaged with Elevator Maintenance Control Program
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Elevator Maintenance Control Program
- 9. Balancing eBooks and Physical Books Elevator Maintenance Control Program
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Elevator Maintenance Control Program
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Elevator Maintenance Control Program
  - Setting Reading Goals Elevator Maintenance Control Program
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elevator Maintenance Control Program
  - Fact-Checking eBook Content of Elevator Maintenance Control Program

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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