



Course Information Letter ---- CT519

(GE FRAME 5) GAS TURBINE MAINTENANCE CT519

This 4 day course was developed to improve the effectiveness of maintenance activities associated with GE Frame 5 gas turbines. First we need to learn to properly identify all the major components and systems. An overview of the identification of this equipment is offered in advance of the more detailed lectures to follow. Next, we need to learn to better plan and implement gas turbine maintenance outages. Planning, safety, procedures and considerations regarding replace/reuse/repair decision-making are very important topics covered. We examine the most common causes of gas path damage and the impact upon efficiency, reliability and availability. Related topics include clearance data taking, NDE, bearing inspections, and alignment issues. Gas turbine operation is discussed from the perspective of auxiliary systems and how operating factors may impact maintenance intervals. Combustion, hot gas path and major inspections are discussed.

A topical outline includes: Review of CT Fundamentals, Frame 5 Construction and Operating Principles, Auxiliary Systems, Controls Overview, Maintenance Preparation and Planning, Combustion Section Inspection, Turbine Inspection, Major Inspection and Alignment.

This course has been specifically designed for plant personnel who are involved in safely and effectively operating and maintaining of these GE Frame 5 gas turbines.

OBJECTIVES: Upon successful completion of this course the participant should be able to:

1. Describe the major components and systems associated with MS5000 gas turbines.
2. List gas turbine operational and safety issues that typically cause the scheduling of a maintenance outage.
3. Describe differences between a hot gas path inspection, turbine inspection, and major inspection.
4. List the considerations that must be included when developing an outage plan or schedule.
5. Describe the major considerations when making a replace/reuse/repair decision.
6. Describe the Frame 5 support systems and requirements for operation.
7. Describe the procedures necessary for the safe and effective disassembly and reassembly of gas turbine components.
8. Describe the disassembly and reassembly of the major fuel valves.
9. List the most common causes of gas path damage and their possible effects upon future operation.
10. Describe most common causes gas path defects and their impact upon turbine efficiency and reliability.
11. Describe the type and purpose of clearance and alignment measurements commonly taken during the disassembly and reassembly of a gas turbine unit.
12. Describe the measuring instruments used to determine gas turbine component clearances.
13. List and describe the various non-destructive examinations performed during disassembly of the gas turbine.
14. Describe the common procedures for cleaning and inspecting gas turbine components.
15. Describe the criteria used to evaluate gas turbine component defects.
16. Describe the common repair methods for repair of gas turbine components.
17. Describe the common types and operation of journal and thrust bearings.
18. Describe the common causes of bearing damage.
19. Describe the measurements required to determine oil clearances.
20. Describe common bearing inspection and repair procedures.
21. Describe the considerations to be taken into account when evaluating alignment of gas turbine components.
22. Describe the methods used to properly align gas turbine generator components.

Ge Frame 5 Maintenance Manual

Michael Seilmaier

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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Table of Contents Ge Frame 5 Maintenance Manual

1. Understanding the eBook Ge Frame 5 Maintenance Manual
 - The Rise of Digital Reading Ge Frame 5 Maintenance Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Ge Frame 5 Maintenance Manual
 - 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 Ge Frame 5 Maintenance Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ge Frame 5 Maintenance Manual
 - Personalized Recommendations
 - Ge Frame 5 Maintenance Manual User Reviews and Ratings
 - Ge Frame 5 Maintenance Manual and Bestseller Lists
5. Accessing Ge Frame 5 Maintenance Manual Free and Paid eBooks
 - Ge Frame 5 Maintenance Manual Public Domain eBooks
 - Ge Frame 5 Maintenance Manual eBook Subscription Services
 - Ge Frame 5 Maintenance Manual Budget-Friendly Options
6. Navigating Ge Frame 5 Maintenance Manual eBook Formats

- ePub, PDF, MOBI, and More
- Ge Frame 5 Maintenance Manual Compatibility with Devices
- Ge Frame 5 Maintenance Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ge Frame 5 Maintenance Manual
 - Highlighting and Note-Taking Ge Frame 5 Maintenance Manual
 - Interactive Elements Ge Frame 5 Maintenance Manual
- 8. Staying Engaged with Ge Frame 5 Maintenance Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ge Frame 5 Maintenance Manual
- 9. Balancing eBooks and Physical Books Ge Frame 5 Maintenance Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ge Frame 5 Maintenance Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ge Frame 5 Maintenance Manual
 - Setting Reading Goals Ge Frame 5 Maintenance Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ge Frame 5 Maintenance Manual
 - Fact-Checking eBook Content of Ge Frame 5 Maintenance Manual
 - 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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