



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

JL Elias

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

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