

46ESS-xx: Gas Turbine Maintenance – Aero Engines

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Gas turbines are one of the most popular power generating technologies. In order to generate power, gas turbine use an internal combustion engine which burn an air-fuel mixture to produces hot gases that spin a turbine. The in-service costs of running an engine usually surpass the initial capital cost of design, construction, and commissioning. Therefore, a maintenance of the engine could be crucial. A well-planned maintenance program is necessary to preserve the reliability, enabling improvements to be implemented, and optimum performance and efficiency of the engine. Gas turbines in general are normally classified into four categories which are industrial engine (heavy and medium duty), aircraft derivative, small gas turbine, and micro-turbine. This article will target the aero gas turbines maintenance in where the gas turbines are designed for greater performance, flexibility and reliability in operation and use the most sophisticated and modern technology.