

:: TRAINING MODULES IN POWER PLANT THEORY & OPERATING EFFICIENCY ::**Course Code: ACS005 Performance Modeling Software Gatecycle Advanced Training**

Course Duration - 2.5 Days

WHY YOU SHOULD ATTEND

Learn the expert use of GE Energy Software Gatecycle - a powerful tool for both the gas and steam sides of power plant design and analysis. Gatecycle software predicts design and off-design performance of combined cycle plants, fossil boiler plants, cogeneration systems, combined heat-and-power plants, advanced gas turbine cycles and many other energy systems. You can use Gatecycle software for quick assessments, detailed engineering, design, retrofitting, repowering and acceptance testing. Its component-by-component approach and advanced macro-capabilities let you model virtually any type of system.

This course is tailor made to suit user requirements. Examples of what you will be able to do by the end of this course include to:

Set up performance models for power plant equipment that calculates the new and clean performance based on current operating parameters, to enable comparison with actual performance

Application of Gatecycle model calculations for E.g due diligence plant assessment

Advanced gas turbine modeling: compressor maps, cooling flows, component power and flow matching

Spencer-Cotton-Cannon steam turbine theory

Design optimization of a steam cycle power plant

How to make a repowering model

WHO SHOULD ATTEND

It is assumed course participants already have a basic working knowledge of Gatecycle.

Power Plant Design Engineers

Performance Engineers

Equipment Engineers E.g. Gas Turbine, Steam Turbine

Course Syllabus

Participants get a dedicated PC each installed with the Gatecycle program to carry out hands-on practice and exercise.

This advanced course is tailor made to specific user requirements.