

Power Plant Efficiency

Course Code: EPG06

SFC-Eligible | Course Reference Number: TGS-2022011606

COURSE OBJECTIVES

Upon completion of this course, participants will be able to:

- Learn the fundamentals of power plant efficiency
- Understand the factors affecting power plant efficiency
- Apply the strategies to enhance power plant efficiency

MAIN CONTENTS

- Overview of power plant performance
 - Power plant historical development and their performance
 - Conventional power plant operation
 - Sub-critical and super-critical power plant performance
 - Gas turbine open cycle performance
 - Combined-cycle power plant performance
 - Combined heat and power (CHP) plant performance
- Fundamentals of power plant efficiency
 - Boiler efficiency calculation methods
 - Turbine cycle efficiency (heat rate)
 - Combined cycle plant efficiency
- Factors affecting power plant efficiency
 - Power plant and combined-cycle plant efficiency strategies
 - Power plant performance monitoring and analysis

METHODOLOGY

Lecture

TARGET AUDIENCE

Operational staff who are involved in planning, operations and maintenance in the power plant

COURSE DETAILS

Duration	:	14 hours
Mode of Delivery	:	Face-to-face or Blended (Face-to-face and Synchronous E-learning)
Certification	:	SIPG Certificate of Completion
PDU by PE Board	:	Pending
Additional Requirement/s	:	Not applicable

COURSE FEES

Full Course Fee	:	S\$1,400 (before GST)
For Singapore Citizens/PR [21 – 39 years old]	:	S\$420 (before GST)
For Singapore Citizens [40 years old and above]	:	S\$140 (before GST)

ADDITIONAL REMARKS

- Trainee must attain at least 75% attendance rate and pass the assessment to receive Certificate of Completion and funding grant (if applicable).
- Subsidy of up to 70% is applicable for Singapore Citizens, Permanent Residents or Long-Term Visitor Pass Plus (LTVP+) Holders, subject to funding agency's approval.
- Enhanced subsidy of up to 90% is applicable for Singapore Citizens aged 40 years and above, subject to funding agency's approval. Note that GST payable will be computed from fee after 70% funding.
- Professional Development Unit (PDU) is applicable for Professional Engineers registered under the Professional Engineers (PE) Board only.
- All published fees are subject to prevailing GST.

CONTACT US

For more information, please contact SIPG at +65 6916 7930 or email training-institute@spgroup.com.sg.

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