

Overview of Power Generation Plants

Course Code: EPG01

SFC-Eligible | Course Reference Number: TGS-2022011357

COURSE OBJECTIVES

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

- Understand the principles of power generation
- Understand the basic configuration and operating principles of steam turbine, gas turbine and combined cycled plants
- Apply the recommended operational, startup and shutdown practices for power plants
- Understand the fundamentals of electrical system in power plants

MAIN CONTENTS

- Types of power generation plants
- Introduction to:
 - Steam power plant
 - Gas turbine and combined-cycle power plant
 - Diesel and gas engine power plant
 - Nuclear power plant
 - Fuel cell
 - Combined heat and power system
- Introduction to systems in steam plant
 - Feed water system, Condensate water system
 - Fuel system, Steam system
- Starting up and shutting down of steam plants
- Electrical supply system in the power plants
- Frequency and voltage control
- Safe isolation of various components for maintenance works

METHODOLOGY

Lecture

TARGET AUDIENCE

Technical and non-technical staff who wish to understand power generation plants

COURSE DETAILS

Duration	: 7 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	: 5
Additional Requirement/s	: Not applicable

COURSE FEES

Full Course Fee	: S\$700 (before GST)
For Singapore Citizens/PR (21 – 39 years old)	: S\$210 (before GST)
For Singapore Citizens (40 years old and above)	: S\$70 (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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