

# Power Plant Reliability

Course Code: EPG05

SFC-Eligible | Course Reference Number: TGS-2022011358

---

## COURSE OBJECTIVES

---

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

- Learn the strategies to enhance power plant reliability
- Understand the impact of reliability plan through the stages of power plant's life cycle
- Apply reliability study and improvement measures on major power plant equipment

## MAIN CONTENTS

---

- Fundamentals of Plant Reliability
  - Definition & Importance of Plant Reliability
  - Relationship between Plant Reliability, Availability and Performance
  - Concepts of Plant Reliability and Factors affecting Plant Reliability
- Strategies to enhance Power Plant Reliability
  - Engineering, operation and maintenance strategies
  - Importance of the Management in Plant Reliability (Reliability Leadership)
- Impact of Reliability plan through the stages of Power Plant's Life Cycle
  - Loop Optimization
  - Construction, plant start-up and running
- Reliability Study & Improvement Measure on Major Power Plant Equipment
  - Critical System & Equipment
  - Major Mechanical and Electrical Equipment
  - Control & Instrumentation Equipment
- Importance of Cooperation & Coordination between Operations, Maintenance, Reliability Teams
- Plant Reliability Improvement Principles/Strategies

## METHODOLOGY

---

Lecture

## TARGET AUDIENCE

---

Engineering and technical staff involved in planning, operation, 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](mailto:training-institute@spgroup.com.sg).

---

## OTHER SIPG COURSES

---

For more courses, visit our website at: <https://www.spgroup.com.sg/about-us/training> or

Scan the QR code below:

