

Mechanical Technician (Level 1)

Course Syllabus



1. Description

This course is intended for Operation and Maintenance personnel who will be working on mechanical equipment and engines in Oil & Gas Production equipment and facilities. This course includes group study sessions designed to provide the participants with knowledge of theory and hands on training. Also included will be explanation and discussion of practices necessary to perform mechanical maintenance safely and efficiently. The specific processes, procedures and forms required to perform mechanical tasks in different situations and with different equipment, personnel are likely to encounter on the job. Finally, each certified personnel must pass evaluation requirement as shown below.

2. Objectives

- ❖ To learn the basic overviews of mechanical equipment and engines typically used in the Oil and Gas Production Plant.
- ❖ To be able to use mechanical tools and equipment, operate and maintain specific equipment in the Oil and Gas Production Plant
- ❖ To be able to perform corrective and preventive maintenance in mechanical tasks.
- ❖ To understand and be able to work on mechanical equipment and engines safely and efficiently.

3. Materials

- a) Mechanical training manuals
- b) Slide Presentations
- c) VDO's training
- d) Mechanical tools and specific equipment as related to each topic
- e) Specific machines and engines as related to each topic
- f) All materials are in the English language.

4. Class size

5 – 15 trainees.

5. Language

- Presented by Thai instructors
(Experienced in Oil & Gas with at least 10 years)
- Training Manuals and VDOs in English
- Quizzes and Trainee Reports in English.

6. Who should attend:

- Mechanical Technicians who are new for Oil & Gas fields
- Apprentice Engineers
- Should passed TOEIC at least 350

7. Course Outline: Mechanical Technician(Level1) course is comprised of 7 packages ,each package take 2 – 3 days as :

Duration	Course Code	Class Presentation	Teaching Aids, Practices
1 day	OG-P-TH02	<ul style="list-style-type: none"> • Basic Principle Of Petroleum 	<ul style="list-style-type: none"> • Manuals • VDO Summary • Quiz
1 day	OG-P-TH02	<ul style="list-style-type: none"> • Overview of Oil and Gas Processing 	<ul style="list-style-type: none"> • Manuals • VDO Summary • Quiz

1 day	OG-P-TH02	<ul style="list-style-type: none"> Wellhead Platform and Equipment 	<ul style="list-style-type: none"> Manuals VDO Summary Quiz
1 day	OG-M-TH02	<ul style="list-style-type: none"> P & ID Drawing 	<ul style="list-style-type: none"> Manuals VDO Summary Quiz
2 days	OG-M-TH02	<ul style="list-style-type: none"> Power Tools 	<ul style="list-style-type: none"> Hands-On VDO Summary Quiz
2 days	OG-M-TH03	<ul style="list-style-type: none"> Measurement Tools 	<ul style="list-style-type: none"> Hands-On VDO Summary Quiz
1 day	OG-M-TH03	<ul style="list-style-type: none"> Basic Bearings 	<ul style="list-style-type: none"> Equipment Demo VDO Summary Quiz
1 day	OG-M-TH04	<ul style="list-style-type: none"> Gaskets, Packing and Mechanical Seals 	<ul style="list-style-type: none"> Equipment Demo VDO Summary Quiz
2 days	OG-M-TH04	<ul style="list-style-type: none"> Valve Maintenance 	<ul style="list-style-type: none"> Hands-On VDO Summary Quiz
1 day	OG-M-TH05	<ul style="list-style-type: none"> Centrifugal Pump 	<ul style="list-style-type: none"> Equipment Demo VDO Summary Quiz
2 days	OG-M-TH05	<ul style="list-style-type: none"> Positive Displacement Pump 	<ul style="list-style-type: none"> Equipment Demo VDO Summary Quiz
2 days	OG-M-TH06	<ul style="list-style-type: none"> Pipe and Pipe Fittings 	<ul style="list-style-type: none"> Hands-On VDO Summary Quiz
1 day	OG-M-TH06	<ul style="list-style-type: none"> Air Compressor 	<ul style="list-style-type: none"> Equipment Demo VDO Summary Quiz
2 days	OG-M-TH07	<ul style="list-style-type: none"> Diesel Engine 	<ul style="list-style-type: none"> Equipment Demo VDO Summary Quiz

7. Class duration

- 1 day = 7 hours.
- Total class - days = 20 days
- Total class – hours = 20 x 7 = 140 hours.

8. Assessment

1. Quiz for each module 40 %
 2. Post Test 60%
- Each trainee must meet 70% above.

9. Certificate

- Each package will be provided by MOGIT
- Completion of all packages, the certificate will be distributed and accredited as Mechanical Technician, Level 1.

10. Training fee

Including : lunch, training manuals, training material, consumables and certificates.
Excluding: Accommodation and VAT.

11. Option :

- * Clients can separately select and learn each course module as their requirement
 - * Clients can add more subjects as their requirement.
-