

AMET, the First University for Maritime Education in India with state of the art establishment at Kanathur, Chennai, is totally dedicated to disseminate knowledge in Shipping Industry. As a prestigious recipient of Llyods List Training Award 2007, AMET's collaborations with the Danish Maritime University, University of Glasgow & Strathclyde and membership of International Association of Maritime Universities benefits the Indian youth to be engaged across the shipping industry with fabulous careers as Engineers, Management Professionals and Officers. AMET to its credit has excellent placement re-



cord with leading international shipping giants all these years who prefer to visit AMET first to select the best of its cadets for their company.

AMET started under graduate courses in Naval Architecture, Harbour & Offshore Engineering, Petroleum & Offshore Engineering after becoming an University.

Chancellor J. Ramachandran to his credit has been awarded Excellence Award instituted by National Maritime Day celebrations committee (DG shipping) Mumbai 2008. This awards in to recognize and honour persons for their lifetime exceptional and distinguished Services in the maritime sector.

Scope

Increasing worldwide demands for clean fuels has necessitated the construction of export and receiving terminals for liquefied natural gas (LNG) and liquefied petroleum gas (LPG).

Additionally, the strong market development in the plastics industry has led to increased demand for storage and transportation of petrochemical gases such as ethylene and propylene.

In India major transformation is under way in the oil/gas sector. The new Exploration Licensing policy (NELP) has led to the entry of a number of private and foreign players' participation.

The above developments in the oil and gas sector have thrown up plethora of opportunities and immense growth prospects for trained **Gas Engineers**.

Developing technology in marine sector has enabled the construction of bigger ships with higher power requirements which is fully handled by the high-voltage installations without much increase in size and cost of the equipments. It is very much necessary that the personnel operating and maintaining such equipment are well trained in additional safety aspects required to be observed when dealing with High Voltage. During the course the participants get familiarized with High-Voltage gears and the safety procedures for handling them. A day of field trip to a captive power plant exposes the participants to the actual operations and maintenance procedures of High-Voltage switch gear at a High-Voltage installation.

Modern ships with high technology requires the services of personnel with **Electrical Engineering skills**.

AMET University has developed this unique course combining **Electrical & Gas Engineers** in consultation with DNV ACADEMY (course certification will be taken up with DNV Seaskill) to fulfil the requirement of the liquefied gas transport industry world over.



AMET
UNIVERSITY
(Under Sec. 3 of UGC Act 1956)

*POST DIPLOMA
IN
ELECTRICAL & GAS
ENGINEERING*



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Post Diploma in Electrical & Gas Engineering

Course Content Electrical Engineering

GENERAL

Safe Working procedures

Basic electricity and Electro Magnetic Compatibility (EMC)

Electrical equipment in hazardous zones

Diagnostic Skills

Modifications and new installations

SAFETY SYSTEMS

Communication and alarm systems

Emergency battery

ELECTRICAL POWER

Generating

Main and emergency generator

Shaft generator

High voltage generator and system

Distribution

Main switch board

Emergency switch board

Local power distribution

Transformers

Consumers

Power management systems

Electrical motors

Electrical drives

Electrical illumination in deck, engine room & cargo spaces

Other systems

Steering

Navigation

Steering gear

OTHER ISSUES

Information and Communication technology, Signal transmission

Automation and instrumentation

Workshop electrical equipment

Cabling and Installations

Waste management and emissions

Power Electronics

ISGOTT Rules & Regulations

IOPP & Marpol

Course content for Gas Engineering

- The properties and hazards of Liquefied gases.
- General precautions.
- Safety hazards.
- Cargo operations.
- Cargo equipment.
- Enclosed spaces.
- Emergency procedures.
- Fire-fighting.
- Personnel protection and life saving.
- Cargo information (Data sheets).
- The sea transport of bulk liquefied gas.
- Re-liquefaction and boil-off control.
- Dry-docking and repair periods.
- Cargo handling plant and equipment.
- Instrumentation.
- Electrical equipment in hazardous areas.
- The pressure surge phenomenon.
- Ship/Shore safety check list and guide lines.
- Liquefied Gas-Cargo information form.
- Inhibited cargo certificate.
- Hot work permit.
- Liquefied Gas-Cargo Hose form.
- Conversion tables.

Teaching methodology

The course is both class and lab work based. This course requires that participants are active, as intensive use is made of practical exercises.

COURSE FACULTY

The course faculties are from AMET University & DNV Academy with proven experience in their respective fields.

CERTIFICATE

Post Diploma certificate will be issued by AMET University after successful completion of the course.

Job prospects:

Heavy demand exists for trained Electrical & Gas Engineers with attractive pay packages both within India as well as abroad like

- ◆ Oil and Natural Gas Corporation (ONGC), India
- ◆ Shipping Corporation of India (SCI)
- ◆ Gas Tankers, World wide
- ◆ Gas Terminals, World wide
- ◆ Oil & Gas exploration Rigs, World wide
- ◆ Oil & Gas distribution Networks, World wide

Admission Level

This course is aimed at degree/ diploma holders in Mechanical/Electrical Engineering, Ex.Navy E/R artificers.

Duration

6 months.