

Employability Enhancement Program for Engineers

EEP

Internationally accredited certification

Fresh Engineers

Duration: 4 Months

EEP

Bridging Knowledge & Skill gaps

Industry Expectations

From

TRACEZ

Training and Consultancy Services

www.tracezglobal.com

EEP

Employability Enhancement Program for Engineers



Are you an engineer looking for employment with major organisations in India or abroad?

Do you have any or all of the below given knowledge/skills that a potential employer expects you to possess at the time of employment?

Do you possess an acceptable level of technical understanding relevant to the potential jobs and relevant to your engineering qualification?

Can you present & communicate your ideas with confidence?

Can you plan & organise?

Are you good at managing your time?

Do you have the knowledge on Safety/HSE practices followed by industries?

Do you have minimum supervisory / Leadership skills?

Can you manage own & subordinate's performance?

Are you good at facing job interviews with confidence?

Do you know the basic tools & techniques used for managing various projects?

Are you a team player?

Do you know the details of various job opportunities available with Indian and foreign markets that are suitable to your qualifications and also the minimum required competencies to get selected?

Are you ready to learn and spend a busy 4 months' schedule with Tracez?

Tracez Training & Consultancy services has the expertise and capability to develop your competency to a level that will be appreciated by every employer and that will also help you to go up in your career ladder.

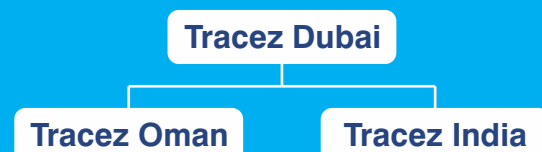


Tracez Training & Consultancy Services – Dubai, Muscat & India

Tracez Training & Consultancy Services is a company having head office in Knowledge village Dubai and branches in Oman & India. Tracez is highly specialised in providing training & competency development support to industries and been in operation since 2009.

Tracez India is established in the beginning of 2014 to provide training & related service to industries in India by making use of its international experience.

Tracez has a large pool of professionals having more than 30 years of international experience in developing and delivering competency based and customised training programs for various industries. **Tracez India** is supported by **Tracez Oman** & **Tracez Dubai** branches.



EEP- Introduction

The engineering curriculum followed by most of the universities in India is currently not aligned with the industry expectations /requirements for providing employment for engineers. EEP is an exclusive program for Indian Engineers, supporting to bridge the Knowledge and skill gaps of engineering graduates in line with the employers' expectations.

The EEP is aimed to provide basic understanding on practical applications of Engineering, safety and health management, Leadership & Communication skills that is essential for every engineer to have, before taking up employment with any organisation. The program EEP will improve the employability of an engineer and helps industries to deploy the newly selected engineers at work without providing them separate training programs on HSE, communication skills and other industry related practices.

This program also gives excellent opportunity for Indian engineers to get exposure to the standards and best practices employed in Engineering, HSE, & Leadership fields by organisations including SHELL, BP, Occidental, PDO, TOTAL, BPCL, ONGC, WIPRO, INFOSYS, Reliance, TATAs, IOC, etc.

Engineering Disciplines

The EEP program currently targets to develop the capabilities of engineering graduates in the following disciplines;

- ◆ Chemical / Petroleum /Process
- ◆ Instrumentation Engineering
- ◆ Electronics & Electrical
- ◆ Electronics & Communications
- ◆ Applied Electronics & Instrumentation
- ◆ Electrical Engineering
- ◆ Mechanical Engineering

The EEP is focussed to develop the basic capability of engineers to secure employment with the following types of Industries in India & abroad

- ◆ Engineering Consultancy firms
- ◆ Construction Companies
- ◆ Oil Refineries
- ◆ Oil & Gas exploration and production Companies
- ◆ Fertilizers & Petrochemicals
- ◆ Power & Utility Industries
- ◆ Electricity Generation & Distribution firms
- ◆ Electronics Industries
- ◆ Major IT firms, etc.

Features of EEP

- ◆ Opportunity to interact and learn from highly experienced professionals from various industries and disciplines.
- ◆ All modules will be customised to suit the standards of Indian Engineers
- ◆ Program delivered by using Multimedia methods
- ◆ Interactive sessions lead by trainers involving candidates in every stage of program delivery.
- ◆ Systematic Assessment for each modules
- ◆ International Accreditation & Certification will be provided.
- ◆ A team of highly qualified and experienced faculty having experience with national and international organisations.
- ◆ Excellent training facility with air-conditioned classrooms and other infra structure.
- ◆ Opportunity to visit industries and work with engineering consultancy firms.
- ◆ EEP is not just classroom lectures with slide shows, but you learn by doing.

EEP- Objectives

EEP is aimed to bridge the knowledge and skill gaps of fresh engineering graduates to that of expected by industries to recruit them for employment. Tracez with its long years of experience with multinational companies has the capability and expertise to develop Indian engineer's competency to a minimum level that required for them to step into an industry.

The objectives of EEP is given below

- ◆ Develop the Technical, HSE & Communication skills of engineers to a level that is required by industries to recruit & deploy them at work.
- ◆ Bridge the gaps in knowledge & skills possessed by fresh engineers to the same required by employers.
- ◆ Provide relevant practical/hands on training to comprehend the engineering curriculum that is followed by Indian engineers.
- ◆ Provide opportunity for Indian engineers to understand the standards & best practices followed by international Oil & Gas companies Engineering, Operations & Maintenance related activities.
- ◆ Provide basic understanding on systematic project management.
- ◆ Develop the minimum required HSE Knowledge & Skills of candidates, relevant to their engineering discipline and specific to their potential job roles with various industries.
- ◆ Develop the basic Leadership & Management skills of Indian Engineers.
- ◆ Provide an understanding on types of jobs available for engineers with various industries relevant to their engineering discipline.
- ◆ Develop competency to face interviews and lead group discussions.
- ◆ Develop competency to communicate and present ideas with confidence, etc.



Tracez India

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EPP- Curriculum

Total 15 modules will be delivered for each discipline, covering Technical, HSE & Leadership areas.

Technical

Mechanical Engineering

1. API standards & Design of pipelines
2. Auto CAD & different types of drawings.
3. Basics of Oil & Gas Exploration, Drilling, Production & Processing Operations
4. Corrosion and material selection Process for various industries.
5. Metallurgy for mechanical engineers
6. Design, Selection & Operation of Pumps, Compressors & Gas turbines
7. Design & Construction of Static equipment: Tanks & Process vessels.

Chemical/Process/Petroleum Engineers

1. Fundamentals of Process Design
2. Basics of Oil & Gas Exploration, Drilling, Production & Processing Operations

3. Mass & Heat Transfer Operations- Industry specific.
4. Fundamentals of Process Instrumentation & Control Systems
5. Process Safety & Asset Integrity Management
6. Design, Selection & Operation of Pumps & Compressors.
7. HAZID, HAZOP & Bow- Tie Analysis for Engineers

Electrical Engineering

Total 16 modules will be delivered, covering Technical, HSE & Leadership areas.

Technical

1. Industrial applications of Electrical engineering.
2. Electrical Drawings & Control Circuits
3. General Electrical Safety & First Aid
4. Electrical Protection Systems
5. Working on Electrical Systems in Hazardous Area
6. Electrical Safety Rules and Safe Operating procedures for Low Voltage & High Voltage Systems
7. Inspection, Testing and Commissioning of Industrial Electrical equipment.
8. Power Generation, Transmission & Distribution Systems.

Instrumentation / Electronics / Communication

1. Industrial Automation & Controls
2. Design, selection & Installation of Instrumentation systems for Industries.
3. Instrumented Safeguarding Systems- SIS & SIL classifications
4. DCS, PLC & SCADA systems in Industrial applications.
5. Basics of Oil & Gas Exploration, Drilling, Production & Processing Operations
6. Flow, Temperature, Pressure & Level measurement and Transmitter Calibrations.
7. Digital techniques & Data handling
8. Network Security & protection Systems

Common Modules for all branches

HSE- Health, Safety & Environment systems

1. Safety Induction- General Safety for Industries
2. Safety Leadership & Management
3. HSE Tools & Skills for Engineers

Leadership & Communication

1. Business Communication & Presentation skills development
2. Advanced Supervisory Skills Development.
3. Work scheduling & Planning
4. Project Management – PMP preparatory
5. Time management & Performance management.

Basic Finance Management for Industries

Benefits for Industries

- ◆ Industries can deploy the new engineers who completed EEP at work without providing any additional training.
- ◆ EEP can be customised as per specific industry requirement.
- ◆ Not required to maintain a training centre and training team for new recruits.

HSE / Safety Officer Positions with Oil Gas Companies & EPC/Construction Companies

Are you planning to pursue a career as an HSE / Safety officer? Then you need to have very high level of technical understanding in Occupational safety & health in addition to communication & presentation skills supported by an international certificate in Safety & Health. Without having real knowledge of the subject, you will not be able to pass the selection tests & interviews of big organisations and you may also struggle to deliver at work.

TRACEZ team has long years of experience with international Oil & Gas companies and is capable to develop your competency to the level of a Safety officer and assures your success in the NEBOSH exams once you are part of Tracez India.



Additional programs Scheduled to deliver by Tracez India.

1. NEBOSH

1. International Certification in Occupational Safety & Health- IGC
2. Technical Certificate in Oil & Gas safety
3. NEBOSH International Diploma in Occupational Safety & Health

2. IOSH

1. Managing Safely
2. Working Safely
3. Leading Safely

3. Certified Training Professional - CTP:

An excellent program for all training professionals including Trainers, Training Managers and HR personnel and also internationally certified.

4. Assessor Qualification: Workplace assessor qualifications is required to carry out formal competence assessment of employees at work.

5. Diploma in Oil & Gas Operations -

6 months. Tracez is specialised in Oil & Gas operation. This 6 month's program will develop the competency of candidates to work with Oil & Gas installations in any part of the world. Internationally recognised certificates will be provided for those candidates who successfully complete the program.

6. Competent Electrical Person- CEP This

program develops, assess & certify the capability of candidate to work safely on LV & HV electrical systems.



Technical short courses by Tracez India

- ◆ Process Safety & Asset Integrity
- ◆ Steam generation & distribution systems
- ◆ Enhanced Oil Recovery
- ◆ Process Instrumentation & safeguarding
- ◆ Gas Compressors & pumps
- ◆ Static Equipment: Ops & Maintenance
- ◆ Pipeline Maintenance & Integrity Management
- ◆ Risk Assessment Competency
- ◆ Gas Treatment & Processing
- ◆ DCS & PLC Operation & Maintenance
- ◆ Water Treatment Systems
- ◆ Project Management- PMP Preparatory
- ◆ Safety Critical Operations Procedures
- ◆ Electrical Safety Rules- LV & HV
- ◆ HV Electrical equipment in Industrial applications
- ◆ Electrical Equipment in Hazardous areas
- ◆ Applied Process Engineering
- ◆ Safe handling of Chemicals
- ◆ Shutdowns & Turnaround Management
- ◆ Operations Management- Production planning & Economics Analysis
- ◆ Combustion Techniques & Burner Management systems
- ◆ Value engineering & Analysis
- ◆ Planning, Budgeting & Cost Control
- ◆ Tanks & Separators: Isolation, Cleaning & Inspection
- ◆ Safety Instrumentation and protection Systems –SIS
- ◆ HEMP, HAZID & HAZOP for Engineers,
- ◆ Gas Turbines: Selection, Operation and Optimisation, etc.

Please see below link for additional programs,
www.tracezglobal.com/TracezEBrochure.pdf



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