

The logo for Enppi, featuring the word "Enppi" in a bold, black, sans-serif font. A small red flame-like shape is positioned above the letter 'i'.

**Enppi**

TECHNICAL

**SCHEDULE 2020**

# Process Technology

Code	Course Name	Duration (In days)	Start Date	
PT01	Introduction to Process Hydraulics & P&ID's	5	12 Jan.	5 Jul.
PT02	Fundamentals of Oil & Gas Facilities	5	19 Jan.	12 Jul.
PT03	Introduction to Oil Processing	5	26 Jan.	9 Aug.
PT04	Introduction to Gas Processing	5	2 Feb.	23 Aug.
PT05	Natural Gas Dehydration	5	9 Feb.	30 Aug.
PT06	Gas Drying & Sweetening	5	16 Feb.	6 Sep.
PT07	Liquefied Petroleum Gas (LPG)	5	23 Feb.	13 Sep.
PT08	Cooling & Refrigeration System Design	5	1 Mar.	20 Sep.
PT09	Process Fired Heaters	5	8 Mar.	27 Sep.
PT10	Safety Relief & Flare System Design	5	15 Mar.	11 Oct.
PT11	Heat Exchanger Selection, Design & Construction	5	22 Mar.	18 Oct.
PT12	Tower Internals	5	29 Mar.	1 Nov.
PT13	Separators Filtration, Selection & Design	5	5 Apr.	8 Nov.
PT14	Industrial Water Conditioning	5	12 Apr.	15 Nov.
PT15	Air-Cooled exchangers	5	12 Jan.	13 Sep.
PT16	Industrial Pollution Control	5	19 Jan.	20 Sep.
PT17	Water Desalination Technology	5	2 Feb.	11 Oct.
PT18	Waste Water Treatment & Re-Use	5	9 Feb.	18 Oct.
PT19	Water Treatment and Operation (New)	5	16 Feb.	1 Nov.
PT20	Loss Prevention Engineering	5	23 Feb.	8 Nov.
PT21	Fire Protection Systems (Basic)	5	1 Mar.	15 Nov.
PT22	Fire Protection Systems (Advanced)	5	8 Mar.	22 Nov.
PT23	Fundamentals of Process Hazard Analysis	5	15 Mar.	29 Nov.
PT24	Process Hazard Analysis (Advanced)	5	22 Mar.	6 Dec.
PT25	Fire Hazard Analysis & Risk Assessment (Basic)	5	29 Mar.	13 Dec.
PT26	Fire Hazard Analysis and Risk Assessment (Advanced)	5	5 Apr.	20 Dec.
PT27	Fire & Gas Detection System	5	12 Apr.	27 Dec.
PT28	Hazard Area Classification Fundamentals	5	12 Jan.	5 Jul.

## Process Technology

Code	Course Name	Duration (in days)	Start Date	
PT29	Process Safety Management	5	19 Jan.	12 Jul.
PT30	Management of Change (MOC)	5	26 Jan.	9 Aug.
PT31	Hazard Operability (HAZOP)	5	2 Feb.	23 Aug.
PT32	Flange Management	5	9 Feb.	30 Aug.
PT33	Pre-commissioning & Commissioning Start-up	5	16 Feb.	6 Sep.
PT34	Refinery Process (UOP) Introduction (New)	5	23 Feb.	22 Nov.
PT35	Refinery Advanced (New)	5	1 Mar.	29 Nov.
PT36	Refinery & Pantomimical Production Technology (New)	5	8 Mar.	6 Dec.

## Mechanical Engineering

ME01	Pumps Technology (Basic)	5	12 Jan.	5 Jul.
ME02	Advanced Applications & Technologies of API Pumps	5	19 Jan.	12 Jul.
ME03	Diesel Engine	5	26 Jan.	23 Aug.
ME04	Centrifugal Compressors	5	2 Feb.	30 Aug.
ME05	Reciprocating Compressors	5	9 Feb.	6 Sep.
ME06	Vibration Analysis	5	16 Feb.	13 Sep.
ME07	Boiler Design & Steam Raising	5	23 Feb.	20 Sep.
ME08	Boiler Efficiency Improvement	5	1 Mar.	27 Sep.
ME09	Boiler Selection , Operation & Maintenance-Fundamentals	5	8 Mar.	11 Oct.
ME10	Pressure Vessels Design, Inspection & Repair	5	15 Mar.	18 Oct.
ME11	Heat Exchangers Mechanical Design & Maintenance	5	22 Mar.	1 Nov.
ME12	Tanks Design & Maintenance	5	29 Mar.	8 Nov.
ME13	Gas Turbine Design & Selection	5	5 Apr.	15 Nov.
ME14	Steam Turbine Design & Maintenance	5	12 Apr.	6 Sep.
ME15	Cathodic Protection (CP)	5	12 Jan.	13 Sep.
ME16	Painting & Coating Technology	5	19 Jan.	20 Sep.
ME17	Corrosion Inhibitors	5	26 Jan.	27 Sep.
ME18	Material Selection in Petroleum Industry	5	2 Feb.	27 Sep.

# Mechanical Engineering

Code	Course Name	Duration (In days)	Start Date	
ME19	Corrosion Control Techniques	5	9 Feb.	11 Oct.
ME20	Fundamentals of Low Temperature & Cryogenic Tanks	5	16 Feb.	18 Oct.
ME21	Design, Fabrication & Inspection of Pressure Vessels According to ASME VIII DIV 1	5	23 Feb.	1 Nov.
ME22	Pressure Vessels & Tanks Fitness For Service Assessment (API 5791-/ ASME FFS-1)	5	1 Mar.	8 Nov.
ME23	HVAC system Design	5	8 Mar.	15 Nov.
ME24	Lubricating Oils	5	15 Mar.	22 Nov.
ME25	Mechanical Seal for Refineries	5	22 Mar.	29 Nov.
ME26	Rotating Equipment	5	29 Mar.	6 Dec.
ME27	Gas Turbine operation malignance & Troubleshooting (New)	5	5 Apr.	13 Dec.
ME28	Gas Processing Plant Troubleshooting & Start-Up (New)	5	12 Apr.	20 Dec.
ME29	Compressors and Pumps (New)	5	12 Apr.	27 Dec.

# Maintenance Engineering

MC01	Bearing Maintenance and Services for Technicians (New)	5	19 Jan.	30 Aug.
MC02	Maintenance Planning, Scheduling and Work Control (New)	5	9 Feb.	13 Sep.
MC03	Computerized Maintenance Management Systems (CMMS) (New)	5	23 Feb.	27 Sep.
MC04	Shutdown & Turnaround Management (New)	5	8 Mar.	11 Oct.
MC05	Reliability & KPI Course (New)	5	22 Mar.	8 Nov.
MC06	Advanced Maintenance Management (New)	5	29 Mar.	29 Nov.

# Piping Engineering

PE01	Specification for Piping Components	5	12 Jan.	9 Aug.
PE02	Piping Design & Fabrication	5	2 Feb.	23 Aug.

# Piping Engineering

Code	Course Name	Duration (In days)	Start Date	
PE03	Basics of Piping Stress Analysis	5	16 Feb.	6 Sep.
PE04	Basics of Piping Dynamic Analysis	5	1 Mar.	20 Sep.
PE05	Fundamentals of Underground Piping Engineering	5	15 Mar.	1 Nov.
PE06	Valves Technology (Basic)	5	29 Mar.	18 Oct.
PE07	Valves Technology (Advanced)	5	26 Jan.	13 Sep.
PE08	Fundamentals of Piping Design	5	9 Feb.	27 Sep.
PE09	Advanced Piping Design	5	23 Feb.	11 Oct.
PE10	Subsea Pipeline Design	5	8 Mar.	8 Nov.
PE11	Gas Transmission & Distribution According to ASME B31.8	5	22 Mar.	15 Nov.
PE12	Onshore Pipeline Design & Construction (New)	5	5 Apr.	29 Nov.
PE13	Offshore Platform Design (New)	5	12 Apr.	27 Dec.
PE14	Onshore Pipeline Construction (New)	5	19 Jan.	13 Dec.

# Instrumentation & Control

IC01	Instrument Pre-installation & Installation Guidelines	5	26 Jan.	9 Aug.
IC02	Instrumentation in Hazardous Locations	5	9 Feb.	6 Sep.
IC03	Basics of Instrumentation & Control	5	23 Feb.	20 Sep.
IC04	Process Measurements	5	8 Mar.	23 Aug.
IC05	Flow Measurements (Basic)	5	22 Mar.	13 Sep.
IC06	Flow Measurements (Advanced)	5	12 Apr.	27 Sep.
IC07	Boiler Control	5	12 Jan.	11 Oct.
IC08	Control Valve Engineering	5	2 Feb.	1 Nov.
IC09	Process Control	5	16 Feb.	15 Nov.
IC10	Basic Pneumatic System	5	23 Feb.	18 Oct.
IC11	Programmable Logic Controllers (PLC)	5	1 Mar.	22 Nov.
IC12	Supervisory Control & Data Acquisition Systems (SCADA)	5	15 Mar.	29 Nov.
IC13	Distributed Control Systems (DCS)	5	29 Mar.	6 Dec.
IC14	Field Bus Foundation	5	5 Apr.	13 Dec.

## Instrumentation & Control

Code	Course Name	Duration (In days)	Start Date	
IC15	On-line Analysers	5	19 Jan.	20 Dec.
IC16	Safety Instrumented Systems (SIS) for the process Industry	5	8 Mar.	27 Dec.

## Wireless & Telecommunication

TL01	Paging Systems	2	26 Jan.	27 Sep.
TL02	Integrated Security System	3	18 Feb.	20 Oct.
TL03	Fiber Optic System	2	15 Mar.	1 Nov.
TL04	Wireless Communication	3	29 Mar.	24 Nov.

## Civil Engineering

CE01	Repair & Strengthening of Concrete Structure	5	12 Jan.	23 Aug.
CE02	Structural Design of Piperack	5	2 Feb.	13 Sep.
CE03	Preparation of Structural Repair Report (New)	5	1 Mar.	11 Oct.
CE04	Equipment Foundation Design	5	29 Mar.	1 Nov.

## Electrical Engineering

EL01	Basic Electricity	5	26 Jan.	6 Sep.
EL02	Generators, Motors & Transformers (New)	5	9 Feb.	13 Sep.
EL03	UPS & Battery System	5	23 Feb.	27 Sep.
EL04	Earthing System & Lightning system	5	8 Mar.	11 Oct.
EL05	Power System Protection	5	22 Mar.	6 Dec.
EL06	Electrical Cabling System	5	12 Apr.	15 Nov.
EL07	Lighting System Design	5	12 Jan.	1 Nov.

## Health & Safety

HS01	Offshore Safety	4	12 Jan.	23 Aug.
HS02	Risk Analysis Techniques	5	19 Jan.	30 Aug.

## Health & Safety

Code	Course Name	Duration (In days)	Start Date	
HS03	Hazard identification & Risk Assessment (New)	2	26 Jan.	6 Sep.
HS04	Incident / Accident Investigation & Root Cause Analysis	5	2 Feb.	13 Sep.
HS05	Industrial Safety	5	9 Feb.	20 Sep.
HS06	H2S & Using Breathing Apparatus	3	16 Feb.	27 Sep.
HS07	Handling of Hazardous Chemicals and hydrogen sulphide	4	23 Feb.	11 Oct.
HS08	First Aid	5	1 Mar.	18 Oct.
HS09	Defensive Driving	2	8 Mar.	1 Nov.
HS10	Control Of Work (COW) Program	2	15 Mar.	8 Nov.
HS11	Basic Fire Fighting Techniques	3	22 Mar.	15 Nov.
HS12	Rigging Safety & Lifting Operations	5	29 Mar.	22 Nov.
HS13	HSE Leadership	3	12 Jan.	8 Nov.
HS14	Confined Space Entry	2	19 Jan.	15 Nov.
HS15	Construction Safety Management	5	26 Jan.	22 Nov.
HS16	Working at Heights & Scaffolds	4	2 Feb.	29 Nov.
HS17	Electrical Safety	4	9 Feb.	6 Dec.
HS18	Excavations & Trenching Safety	2	16 Feb.	13 Dec.
HS19	Welding & Cutting Operation	2	23 Feb.	20 Dec.
HS20	Health & Hygiene (New)	2	1 Mar.	27 Dec.
HS21	أساليب تجنب الحوادث والأخطار والكوارث المحتملة بالمنشأة (New)	3	8 Mar.	6 Dec.

## Production Engineering

PR01	Production Optimization Using Nodal Analysis	5	12 Jan.	9 Aug.
PR02	Production Systems Simulation	5	19 Jan.	23 Aug.
PR03	Gas Lift Optimization & Troubleshooting	5	26 Jan.	30 Aug.
PR04	Well Test Analysis	5	2 Feb.	6 Sep.
PR05	Sucker Rod Pumping	5	9 Feb.	13 Sep.
PR06	Gas Reservoir Engineering	5	16 Feb.	20 Sep.
PR07	Applied Reservoir Engineering	5	23 Feb.	27 Sep.

## Production Engineering

Code	Course Name	Duration (In days)	Start Date	
PR08	Water Injection Design & Application	5	1 Mar.	11 Oct.
PR09	Cased Hole Logging	5	8 Mar.	18 Oct.
PR10	Enhanced Oil Recovery Techniques & Screening (EOR)	5	15 Mar.	1 Nov.
PR11	Basics of Drilling Technology	5	22 Mar.	8 Nov.
PR12	Well Completion	5	29 Mar.	15 Nov.

## Energy Efficiency

EE01	Energy Management System (ISO 50001) (New)	5	12 Jan.	13 Sep.
EE02	Technical Energy Review (New)	5	19 Jan.	20 Sep.
EE03	Energy Efficiency Improvement In Pumps & Pipelines (New)	5	26 Jan.	27 Sep.
EE04	Energy Efficiency Improvement in Furnaces, Boilers and Steam Systems (New)	5	2 Feb.	11 Oct.
EE05	Energy Efficiency Improvement in Gas Turbines (New)	5	9 Feb.	18 Oct.
EE06	Utilization of Flare Gases and Associated Gases (New)	5	16 Feb.	1 Nov.
EE07	Energy Efficiency Improvement in Heat Exchangers and Condensers (New)	5	23 Feb.	8 Nov.
EE08	Waste Heat Recovery Systems & Cogeneration (New)	5	1 Mar.	15 Nov.
EE09	Energy Efficiency Improvement in Compressors (New)	5	8 Mar.	22 Nov.
EE10	Renewable Energy Technologies (New)	5	15 Mar.	29 Nov.
EE11	Energy Efficiency Improvement in Electrical Equipment and Motors Systems (New)	5	22 Mar.	6 Dec.
EE12	Energy Efficiency in Administrative Buildings (New)	5	29 Mar.	13 Dec.
EE13	Certified Expert in Energy Management (New)	5	5 Apr.	20 Dec.
EE14	Technical and Economic Feasibility Studies (New)	5	12 Apr.	27 Dec.