

# Downstream Knowledge Unit of Oil and Gas Centre

Technology and Management of Refineries, Petrochemical Plants, Fertilizer, Performance Measurement,  
New Technologies

## 5 Days (1 Week) Training Programs List

Program Code	Program Name (Click to Access Website Brochure with Current Dates)	Program Content Summary
PAM7405	Effective Refinery Asset Management to International Standards	Under Revision. Please see <a href="http://www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf">www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf</a> or email: <a href="mailto:regn@eurotraining.com">regn@eurotraining.com</a>
PAM7605	Effective Fertilizer and Petrochemical Plant Asset Management to International Standards	Under Revision. Please see <a href="http://www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf">www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf</a> or email: <a href="mailto:regn@eurotraining.com">regn@eurotraining.com</a>
PCM6415	Corrosion Monitoring and Inspection in Petro-Chemical Plants and Refineries	Under Revision. Please see <a href="http://www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf">www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf</a> or email: <a href="mailto:regn@eurotraining.com">regn@eurotraining.com</a>
PCM7005	Effective Contract Administration on Petro-Chemical Projects	You will learn about the Best Worldwide Practices in administering contracts to avoid delays and claims. ; Program also shows you how to protect your strategic interests on projects during the contract administration process.; Project Risks; Consequences of Risks Materializing; Risk Assignment by Law; Risk Assignment by Contract; Treatment of Risks; Understanding the Contract Conditions; Administering the Contract Conditions; Possible Disputes from the Contract Conditions; Variations; Extension of Time; Payment; Claims Management; Dispute Resolution; Negotiating VO's, Changes and Claims; Case Studies; Program Recommendations
PCP6015	Commissioning and Re-Startup of Petro-Chemical Facilities	Under Revision. Please see <a href="http://www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf">www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf</a> or email: <a href="mailto:regn@eurotraining.com">regn@eurotraining.com</a>
PCP6115	Commissioning and Re-Startup of Petroleum Refineries	Under Revision. Please see <a href="http://www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf">www.eurotraining.com/plist/psumm/downstream-training-sum-1w.pdf</a> or email: <a href="mailto:regn@eurotraining.com">regn@eurotraining.com</a>
PCP7015	Refinery and Petro-Chemical Plant Technologies and Operational Processes	This program provides you an overall understanding of the Typical Crude Refinery.; It introduces you to the Technology, Methods, Processes, Planning, Maintenance and Management Aspects of Running a Refinery.; (This Program will be customized to meet the Specific Job Needs of the participants. Generally, the following topics will be covered. The relative amount of time for each topic will depend on the assessment of the instructor - based on an initial feedback from the participants.); Understanding Crude Oil; Understanding the Refinery Processes; Crude Distillation; Delayed Coker; Alkylation; Fluid Catalytic Cracking (FCU); Hydro Cracking; Fractionation; Reboilers; Packed Towers; Heaters; Furnaces; Amine Units; Glycol Units; Sulfur Recovery; Condensers; Understanding Refinery Ancillary Units & Utilities; Understanding Refinery Control Systems; Refinery Management Key Concerns; Refinery Planning; Monitoring; Performance Evaluation:

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		Technical: Financial; Quality Assurance & TQM; Procurement; Inventory; Maintenance; Corrosion Control; Environment Management; Employee Development Aspects; Program Recommendations
PCP7025	Corrosion Control and Management In Refineries and Petrochemical Plants	This program provides you a complete view of the Corrosion Technology & Management including latest developments in corrosion inspection and protection.; You will get a multi-discipline understanding of the corrosion control processes in Refineries & Petro-Chemical Plants - empowering you with the tools and understanding to economically protect your organization's assets and you become a recognized corrosion expert!; Corrosion Problems in Refineries & Petro-Chemical Plants; Corrosion Processes ; Corrosion Control Technologies; Implementation Issues in Refineries & Petro-Chemical Plants; Industry Standards; Corrosion Monitoring and Control in Refineries & Petro-Chemical Plants; Cathodic Protection Systems; Corrosion Risk Management; Corrosion Control Planning in Refineries & Petro-Chemical Plants; Designing Out Corrosion in Refineries & Petro-Chemical Plants; New Technologies; Case Studies; Program Recommendations
PCP7035	A-Z of Petro-Chemical Plant Instrumentation and Controls	You will learn about the Technologies & Best Practices in Petro-Chemical Plant Instrumentation and Controls. In the program we cover the Operational Processes, Planning and Management of these facilities.; The program Incorporates Good & Best Practices in the recommended Operational Procedures.; Key Concerns in Plant Instrumentation & Controls; The Technology; Industry Standards ; Operation Methodologies and Procedures; Understanding the Processes; Documenting the Processes meeting Good & Best Practices; Instrumentation & Control Planning Issues ; Strategic Concerns? Long term Issues; System for Implementing Improvements; Program Recommendations
PCP7115	Management of Petro-Chemical Plants	You will learn about the Best Worldwide Practices Management of Upstream & Petro-Chemical Plant Water & Waste Water Treatment Systems: Methodology; Planning; Tools and Technology Issues; Implementation Management; Regulatory issues; The Program Coverage will Include Key Operational Aspects, Creating a Knowledge System and Performance Evaluation & Reporting.; Waste Water Issues on Petroleum Facilities; The Water Treatment Technologies; The Waste Water Treatment Technologies ; Industry Waste Water Plant & Quality Standards ; Waste Water Treatment Processes ; Operational Aspects of Water Treatment Plants; Operational Aspects of Waste Water Treatment Processes; Incorporating Good Practices into Operational Procedures; Incorporating Best Practices in Operational Procedures; Planning Waste & Water Treatment Plants; Strategic Aspects in Operating Plants ; Methodology to Implement Improvements in Plants; Program Recommendations

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Program Code	Program Name (Click to Access Website Brochure with Current Dates)	Program Content Summary
PCP7125	Safety Management On Petro-Chemical Plants	This program covers Multi-discipline Safety Issues on Petrochemical Plants.; The program will cover relevant Laws & Regulations, Standards, Procedures, Disaster Recovery and their associated QA/QC Plans.; Local & Applicable Laws; Regulations of Duly Constituted Authorities; Plant Processes; Plant Procedures; Plant Safety procedures; Documenting the Safety Processes & Sub-Processes ; Implementing a Safety Documentation System on your Petrochemical Project ; Safety Planning ; Safety Awareness; Safety Motivation; Safety KPIs; Disaster Preparedness; Safety Management Concerns ; Implementing Safety Improvements; Program Recommendations
PCP7405	A-Z of Refinery Crude Distillation Unit	This program provides you a multi-discipline understanding of the Crude Distillation Unit. It introduces you to the Technology, Methods, Processes, Operations, Planning, Maintenance, Troubleshooting and Management Aspects of the Crude Distillation Unit.; This Program will be customized to meet the Specific Job Needs of the participants. Generally the following topics will be covered. The relative amount of time for each topic will depend on the assessment of the instructor - based on an initial feedback from the participants.; Understanding Crude; Understanding Crude Distillation Technology; Understanding CDU Ancillary Units: Pre-heaters; Pre-Flash Units; Furnace; Condensers; Reflux System; Steam Strippers; Controls; Utilities; Monitoring CDU; Performance Evaluation CDU; Quality Assurance Management System for CDU; Planning CDU: Annual Plan; Long Term Plan; Maintenance of CDU: Preventive Maintenance; Condition Based Maintenance; Shutdown Maintenance; Corrosion Control; Environment Management; Trouble Shooting CDU; Program Recommendations
PCP7415	A-Z of Refinery Delayed Coking Unit	This program provides you a multi-discipline understanding of the Delayed Coking Unit.; It introduces you to the Technology, Methods, Processes, Operations, Planning, Maintenance, Troubleshooting and Management Aspects of the Delayed Coking Unit.; (This Program will be customized to meet the Specific Job Needs of the participants. Generally the following topics will be covered. The relative amount of time for each topic will depend on the assessment of the instructor - based on an initial feedback from the participants.); The Technology; Understanding Delayed Coking Unit; Understanding Delayed Coking Ancillary Units: Coking Heater; Combination Tower; Condensers; Reflux Systems; Steam Strippers; Controls; Utilities; Monitoring Delayed Coking Unit ; Performance Evaluation of Delayed Coking Unit; Quality Assurance Management System for Delayed Coking Unit; Planning Delayed Coking Unit: Annual Plan; Long Term Plan; Maintenance of Delayed Coking Unit: Preventive Maintenance; Condition Based Maintenance; Shutdown Maintenance; Corrosion Control; Environment Management; Trouble Shooting Delayed Coking Unit; Program Recommendations

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PCP7425	A-Z of Refinery Fluid Catalytic Cracking Unit	<p>This program provides you a multi-discipline understanding of the Fluid Catalytic Cracking Unit that constitutes the economic game changer for the refinery.; It introduces you to the Technology, Methods, Processes, Operations, Planning, Maintenance, Troubleshooting and Management Aspects of the Fluid Catalytic Cracking Unit.; (This Program will be customized to meet the Specific Job Needs of the participants. Generally the following topics will be covered. The relative amount of time for each topic will depend on the assessment of the instructor - based on an initial feedback from the participants.); Understanding FCC Technology; Understanding FCC Feed Streams; Understanding Fluid Catalytic Cracking Units &amp; Regenerator Systems; Understanding Fluid Catalytic Cracking Ancillary Units: Pre Heater; Condensers; Reflux Systems; Cyclone; Air Blowers; Fractionation Towers; Heat Exchangers; Re-boiler; Steam Strippers; Absorber-Stripper Units; Vapor Recovery Unit; Controls; Utilities; Monitoring FCCU ; Performance Evaluation of FCCU ; Quality Assurance Management System for FCCU; Planning FCCU; Annual Plan; Long Term Plan; Maintenance of FCCU: Preventive Maintenance; Condition Based Maintenance; Shutdown Maintenance; Corrosion Control; Environment Management; Trouble Shooting FCCU; Program Recommendations</p>
PCP7435	A-Z of Refinery Hydrocracker Unit	<p>This program provides you a multi-discipline understanding of the Hydrocracker Units.; It introduces you to the Technology, Methods, Processes, Operations, Planning, Maintenance, Troubleshooting and Management Aspects of the Hydrocracker and Hydrogen Units.; (This Program will be customized to meet the Specific Job Needs of the participants. Generally the following topics will be covered. The relative amount of time for each topic will depend on the assessment of the instructor - based on an initial feedback from the participants.); Understanding the Technology; Briefly Understanding Pre-Hydrocracking Processes; Understanding the Hydrocracking Process; Understanding Hydrocracking Ancillary Units; Hydrogen Unit Technology; Refrigeration Units; Caustic Wash Units; Water Wash Units; Deisobutanizer Unit; Controls; Utilities; Emergency Response System; Monitoring Alkylation Unit; Performance Evaluation of Alkylation Unit ; Quality Assurance Management System for Alkylation Unit; Planning Alkylation Unit: Annual Plan; Long Term Plan; Maintenance of Alkylation Unit: Preventive Maintenance; Condition Based Maintenance; Shutdown Maintenance; Corrosion Control; Environment Management; Trouble Shooting Alkylation Unit; Program Recommendations</p>
PCP7445	Hydrotreating Unit - Technology, Processes, Troubleshooting and Management	<p>This program provides you a multi-discipline understanding of the Hydrotreating and Hydrocracker Units.; It introduces you to the Technology, Methods, Processes, Operations, Planning, Maintenance, Troubleshooting and Management Aspects of the Hydrotreating and Hydrocracker Units.; (This Program will be customized to meet the Specific Job Needs of the participants. Generally the following topics will be covered. The relative</p>

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		<p>amount of time for each topic will depend on the assessment of the instructor - based on an initial feedback from the participants.); Understanding Crude; Understanding Pre-Hydrotreating/Hydrocracking Processes; Understanding the Hydrotreating; Understanding the Hydrocracking Process; Understanding Ancillary Units: Hydrogen Unit; Refrigeration; Caustic Wash; Water Wash; Deisobutanizer Unit; Controls; Utilities; Effluent Treatment; Emergency Response System; Monitoring Alkylation Unit; Performance Evaluation of Alkylation Unit ; Quality Assurance Management System for Alkylation Unit; Planning Alkylation Unit: Annual Plan; Long Term Plan; Maintenance of Alkylation Unit: Preventive Maintenance; Condition Based Maintenance; Shutdown Maintenance; Corrosion Control; Environment Management; Trouble Shooting Alkylation Unit; Program Recommendations</p>
PCT7165	Shutdown Maintenance Management of Refineries and Petro-Chemical Plants	<p>This unique program provides the participant a multi-discipline understanding of Shutdown or Turnaround Maintenance Oil Refining and Down-Stream Petro-Chemical Plants.; You will learn about the Shutdown Maintenance Practices: Technology; Methodology; Processes; Planning; Improvement; Management. You will learn about Creating a Turnaround Management Knowledge Base for Future Efficiency, Effectiveness and Cost Reduction.; Turnaround Maintenance the Issues; Shutdown Industry Terminology ; Petro-Chemical Plant Shutdown/ Turnaround Key Objectives (Short and Long Term); Petro-Chemical Plant Shutdown/ Turnaround Methodology; Petro-Chemical Plant Turnaround Planning &amp; Execution Processes; Analyzing the Processes to Identify the Key Performance Indicators for Petro-Chemical Plant Turnaround; Documentation and Controls of Processes to ensure Internal Customer Satisfaction, Productivity and Effectiveness on Petro-Chemical Plant Turnaround Petro-Chemical Plant Turnaround; Performing the Turnaround Processes complying with Good Management Practices; Ideas for Incorporating Best Practices and Leadership Concepts in the Shutdown/Turnaround Processes; Fast Track Maintenance Execution Practices; Program Recommendations</p>
PEN6805	Process Engineering for Non-Process Engineering Professionals	<p>Under Revision. Please see <a href="http://www.eurotraining.com/plist/psumm/downstream-training-summ-1w.pdf">www.eurotraining.com/plist/psumm/downstream-training-summ-1w.pdf</a> or email: <a href="mailto:regn@eurotraining.com">regn@eurotraining.com</a></p>
PFF5915	Fertilizer Plants - Feasibility and Implementation	<p>Under Revision. Please see <a href="http://www.eurotraining.com/plist/psumm/downstream-training-summ-1w.pdf">www.eurotraining.com/plist/psumm/downstream-training-summ-1w.pdf</a> or email: <a href="mailto:regn@eurotraining.com">regn@eurotraining.com</a></p>
PPC6055	Industrial Cleaning of Petrochemical Equipment and Facilities	<p>This is a step-by-step approach to understanding Petrochemical Plant Cleaning Technologies and Methods.; It covers the Quality Assurance Aspects of professional equipment and facility cleaning management; Contracts; Plans &amp; Schedules; Method Statements; Quality Assurance Plans;</p>

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		Quality Control Plans; Close Down Reports for?; High Pressure Water Jetting Cleaning; Vacuum Cleaning; Reactors, Vessels Cleaning; Heat Exchangers and Condenser Cleaning; Boiler Cleaning; Tank Cleaning; Pipelines Cleaning; Drains & Sewers Cleaning; Program Recommendations
PPS8905	Production Planning and Scheduling in Petroleum Refineries	This programme will help identify and resolve issues of production planning and scheduling in petroleum refineries so as to maximize profitability for Refinery Operator.; You will gain understanding of Multidiscipline aspects including: Fundamental Understanding of the Refinery Management Issues. The Related Technology and Technical Issues Work Processes; Professional Standards; Related Quality Assurance Methodology; Aligning your Departmental, Process and Personally Objectives with Organizational Mission, Vision, Strategic Objectives, Quality Policies and Requirements. Specific Areas where you, your section, How your department or your organization can take a Leadership Role in Refinery Operation.; Operational Planning and scheduling in oil refineries; Fundamental Understanding of the Refinery Management Issues; Refinery Technology and Technical Issues ; Refinery Work Processes; ; Refinery Technical Standards; ; Refinery Operation Quality Assurance; Aligning your Refinery Operational Strategy to Organizational Mission, Vision, Strategic Objectives, Quality Policies and other Requirements; Refinery Configuration;; Hydro Skimming Refinery;; Refineries with Secondary Conversion Processes; Integrated Refineries; Choice of Crude; Crude oil scheduling; Choice of Refinery Processes; Refinery Capacity utilization; Cut-points Optimization;; Refinery Upset Situations; Tankage Requirement; Improving Product Movements; Product Blending; Product Specifications; New Trends in Fuel Production; Refinery Environmental Issues; Crude Cost; Refinery Flow-sheets; Refinery Material Balance; Demand Equations; Product Inventory Control; Product Quality Control; Fixed Composition Blending; Refinery & Vendor Software; Program Recommendations
PTR4055	Understanding Refinery Products and Their Practical Applications	This program provides you the Understanding of Oil Refinery Products that will help you appreciate the expectations customers have and what can be done to meet them in participants own authority area.; At the end of the program the participant will prepare an action plan to implement the best practices discussed during the program.; Understanding Refinery Products; Refinery Flexibility for the Product Mix.; Economic Aspects of Producing Different Products; Understanding the Specifications of the Products; Impact of out-of-spec products on Price and Utility; How product can become out of spec due to uncontrolled: Handling; Storage; Transportation; Pipelines; Corrosion; Early warning system to warn of product problems; Workshop Case Studies; Program Recommendations; An Individualized Action Plan for each Participant.; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.

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PTR4105	Refinery Crude Distillation Units Technology, Processes and Management	This program will provide the participant Understanding of Processes, technology and methods of Refinery Crude ; The Program will cover Distillation Units and their Efficient Planning, Implementation, Maintenance & Management.; The Issues; Vocabulary; Technologies; Methods; Processes; Planning ; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best Practices; Safety; Risk Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts & their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Program Recommendations & Action Plan: Workshops; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.
PTR4205	Refinery Delayed Coking Plants Technology, Processes and Management	This program will provide the participant Understanding of Processes, technology and methods of Refinery Delayed Coking Plants and their Efficient Planning, Implementation, Maintenance & Management.; This Program will take into account the Multi Discipline issues related to the effective management of Coking Plants; The Issues; Vocabulary; Technologies; Methods; Processes; Planning ; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best Practices; Safety; Risk Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts & their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Program Recommendations & Action Plan: Workshops; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.
PTR4305	Refinery Alkylation Units Technology, Processes and Management	This program will provide the participant Understanding of Processes, technology and methods of Refinery Alkylation Units and their Efficient Planning, Implementation, Maintenance & Management.; This Program covers the Multi Discipline aspects related to the Management of Refinery Alkylation Units; The Issues; Vocabulary; Technologies; Methods; Processes; Planning ; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best Practices; Safety; Risk Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts & their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Program

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		Recommendations & Action Plan: Workshops; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.
PTR4405	Refinery Catalytic Cracking and Fractionation Units Technology, Processes and Management	This program will provide the participant Understanding of Processes, technology and methods of Refinery Catalytic Cracking and Fractionation Units and their Efficient Planning, Implementation, Maintenance & Management.; This Program Covers the Multidiscipline aspects of Managing a Refinery Catalytic Cracking and Fractionation Units; The Issues; Vocabulary; Technologies; Methods; Processes; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best Practices; Safety; Risk-Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts & their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.
PTR4505	Sweetening and Sulfur Recovery Plants Technology, Processes and Management	This program will provide the participant Understanding of Processes, technology and methods of Sweetening & Sulfur Recovery Plants and their Efficient Planning, Implementation, Maintenance & Management.; This Program Covers the Multidiscipline aspects of Managing a Sweetening & Sulfur Recovery Plant; The Issues; Vocabulary; Technologies; Methods; Processes; Planning ; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best Practices; Safety; Risk Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts & their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Program Recommendations & Action Plan: Workshops; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant
PTR4605	Refinery Auxiliary Units Technology, Processes and Management	This program will provide the participant Understanding of Processes, technology and methods of Refinery Auxiliary Units and their Efficient Planning, Implementation, Maintenance & Management.; This Program Covers the Multidiscipline aspects of Managing Refinery Auxiliary Units; The Issues; Vocabulary; Technologies; Methods; Processes; Planning ; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best

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		Practices; Safety; Risk Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts & their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Program Recommendations & Action Plan: Workshops; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.
PTR4705	Refinery Corrosion Monitoring, Management and Design-Out	This program will provide the participant Understanding of Processes, technology and methods of Refinery Corrosion and their Efficient Planning, Implementation, Maintenance & Management.; This Program Covers the Multidiscipline aspects of Managing Refinery Corrosion; The Issues; Vocabulary; Technologies; Methods; Processes; Planning ; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best Practices; Safety; Risk Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts & their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Program Recommendations & Action Plan: Workshops; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.; Program Recommendation
PTR4805	Petroleum Tank Farms Operation and Management	This program will provide the participant Understanding of Processes, technology and methods of Petroleum Tank Farms and their Efficient Planning, Implementation, Maintenance & Management.; This Program Covers the Multidiscipline aspects of Managing Petroleum Tank Farms; (Time Spent on each topic will depend on Needs of the Particular Group of Participants as Assessed by the Program Director/s); Common Tank Farm Issues ; Tank Farm Vocabulary & Key Concepts; Tank Farm Technologies: Types & Advantages; Corrosion Protection Systems; Designing for Safety; Environment Protection Systems; Tank Internals; Tank Farm International Standards (API); Tank Farm Regulatory Compliance; Work Processes in the Tank Farm: Operational Processes; Maintenance Processes; Environmental Management Processes; Safety Processes; Reporting Processes; Rerating Processes; Planning Work on Tank Farms: Feasibility & Design Stage; Construction Stage; Operation Stage Maintenance Stage;; Tank Farm Risk Identification: Construction risks; Operational Risks; Safety Risks; Tank Farm Critical Risk Analysis, Evaluation & Treatment; Managing the Tank farm Operations: Implementing a Quality Assured System; Applying Good Management Practices; Considering Best Practices; Safety Practices; Tank Farm Performance Management: Key Performance Indicators; Trending

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		Performance; Benchmarking; Balanced Score Card; Early Warning System; Tank Farm Outsourcing Contracts & their Administration; Tank Farm Processes to Create Leadership in Planning, Operation and Management; Tank Farm Industry Case Studies; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.
PTR4905	Reviewing, Improving and Updating Refinery Operating Procedure	This program will provide the participant Understanding of Processes, technology and methods of Refinery Operating Procedures and their Efficient Planning, Implementation, Maintenance & Management.; This Program Covers the Multidiscipline aspects of Refinery Operating Procedures; The Issues; Vocabulary; Technologies; Methods; Processes; Planning ; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best Practices; Safety; Risk Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts & their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Program Recommendations & Action Plan: Workshops Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.
PTR5005	Building a Refinery Knowledge Management System	This program will provide the participant Understanding of Processes, technology and methods of Refinery Knowledge Management System and their Efficient Planning, Implementation, Maintenance & Management.; This Program Covers the Multidiscipline aspects of Refinery Knowledge Management System; The Issues; Vocabulary; Technologies; Methods; Processes; Planning ; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best Practices; Safety; Risk Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts & their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Program Recommendations & Action Plan: Workshops; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.
PTR5105	Refinery and Petro-Chemical Water and Waste Water Treatment Systems	This program will provide the participant Understanding of Processes, technology and methods of Refinery Water and Waste Water Treatment System and their Efficient Planning, Implementation, Maintenance & Management.; This Program Covers the Multidiscipline aspects of Managing

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# Downstream Knowledge Unit of Oil and Gas Centre

Technology and Management of Refineries, Petrochemical Plants, Fertilizer, Performance Measurement,  
New Technologies

## 5 Days (1 Week) Training Programs List

Program Code	Program Name (Click to Access Website Brochure with Current Dates)	Program Content Summary
		<p>a Refinery Water and Waste Water Treatment System; The Issues; Vocabulary; Technologies; Methods; Processes; Planning ; Risk Identification; Risk Analysis; Risk Evaluation; Risk Treatment; Managing the Operations: Quality Assured System; Good Management Practices; Best Practices; Safety; Risk Management; Performance Management: Key Performance Indicators; Trending; Benchmarking; Balanced Score Card; Early Warning System; Outsourcing Contracts &amp; their Administration; Processes to Create Leadership in Planning, Operation and Management; Industry Case Studies; Program Recommendations &amp; Action Plan: Workshops; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.</p>
PTR7205	Refinery to Ultimate User Supply Chain Management	<p>This program provides you the Skills to effectively Manage the Refinery to Ultimate User Supply Chains for the Various Refinery Products.; At the end of the program the participant will prepare an action plan to implement the best practices discussed during the program; The Issues in Supply Chain Management; The Strategic Aspects; Understanding the Needs and Motivations of the Supply Chain Stakeholders; The Supply Chain Processes: Core Functional Processes; Legal &amp; Contractual Processes; Performance Evaluation &amp; Reporting Processes; Knowledge Management System Processes; Coordination Processes; Risk Management Processes; Internal Audit Processes; Strategic Planning Processes; Analyzing the Supply Chain Processes; Developing KPI?s and SLAs for the Processes; Control &amp; Checks for the Supply Chain Processes; Setting up an early Warning System for Problems in the Supply Chain; Validating the Performance of the Supply Chain Function Processes; Improving the Process Performance; Workshop Case Studies; Program Recommendations; Developing an Individualized Action Plan for the Participant; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.</p>
PTR8205	Refinery Products Handling Risks, Safety and Management	<p>This program provides you practical multidiscipline Understanding of Refinery Products Proper Handling and Safety - to meet participants needs in own work and authority area; At the end of the program the participant will prepare an action plan to implement the best practices discussed during the program; Understanding Refinery Products; Risks and Safety Issues related to each Refinery Product; Personnel Protection Equipment; Safety Equipment; Environmental hazards; Refinery Product Handling Processes: Storage; Loading; Transportation; Pipelines; Early warning system to warn of safety problems; Workshop Case Studies; Program Recommendations; An Individualized Action Plan for each Participant.; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations</p>

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## 5 Days (1 Week) Training Programs List

Program Code	Program Name (Click to Access Website Brochure with Current Dates)	Program Content Summary
XRM9715	Managing Operational Risks on Petrochemical Plants	This program provides the participant a range of practical skills to analyze and understand petrochemical risk management needs. It also helps devise strategies for the fulfillment of knowledge and skill requirements of the participants department/organization.; Participant will take away a detailed understanding of the step-by-step methodology for preparing a corporate/departmental strategic petrochemical risk management plan.; Understanding petrochemical risk management; Petrochemical risk management vocabulary; Understanding the petrochemical business environment and context; Comprehensive identification of known, emerging and hidden petrochemical risks; Determining petrochemical risk appetite; Analyzing the petrochemical risks; Evaluating the petrochemical risks; Preparing petrochemical risk treatment recommendations; Approved petrochemical risk treatment plans; Analyzing the residual risks after treatment plan; Preparing a petrochemical risk control plan; Controlling the petrochemical risks; Management reporting of petrochemical risk status; Coordinating with & consulting stakeholders; Getting management commitment for petrochemical risk management; Setting up and using a petrochemical risk management team; Setting up a good management system framework of petrochemical risk management; Setting up a petrochemical risk management knowledgebase ; Personalized petrochemical risk management assignment/workshop; Setting up Early warning system to Provide Decision Support Data; Workshop Case Studies 1; Workshop Case Studies 2; Program Recommendations; An Individualized Action Plan for each Participant.

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