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Training Catalog - Rev. 2020



World-Class Out-Sourced Training Solutions for Your Operations

About Training	Training is by definition the way to improve the performance of our customers' operations.
Local Partnerships	GTIS Group created a Learning & Development Department that contributes to the success of its clients' organizations by driving strategic, measurable and effective learning process.
	Our local partners are selected based on their compliance with GTIS Business Ethics Principles, and Training Standards.
Motto	"Make complicated concepts becoming simple by using proven stimulating and thoughts-provoking methodologies"
Vision	Our Unique Vision of Training
	<ul style="list-style-type: none"> ◆ Strategic: aligned with business objectives ◆ Specific: as per Audience and Culture ◆ Scalable: leverage content across audiences ◆ Measureable: tied to improved performance ◆ Partnership: shared accountability with Client 

**Multiple Disciplines to cover
Industry Needs**

**Regular updates in line with
Technological Changes**

**A 100% Continuous
Improvement Process**

**Dedicated Professionals to
Achieve Top Performance**

**Harmonized Training
Principles & Methodologies
Throughout GTIS Group**

**What you NEED is what you
GET thanks to exclusive
Courses Customization**

◆ **Chemistry Courses**

- ◆ Polymer Courses
- ◆ Surfactant Courses
- ◆ QA/QC

◆ **O&G Industry - Upstream**

- ◆ Basic Mud school
- ◆ Advanced Mud School
- ◆ Drilling fluids courses
- ◆ Integrated Cementing Seminars
- ◆ Cementing Operations
- ◆ Wells Stimulation Fluids
- ◆ Formation Damage
- ◆ Water Shut Off
- ◆ Well Control Introduction
- ◆ Stuck Pipe Course
- ◆ Drilling & Completion
- ◆ Shale Gas & Oil
- ◆ Logs Acquisition and Technologies
- ◆ Wireline Operations
- ◆ Geology
- ◆ Petrophysics
- ◆ Reservoir
- ◆ Well Services & Well Testing

◆ **O&G Industry - Production**

- ◆ Corrosion Engineering
- ◆ Production Operations
- ◆ Production Chemistry
- ◆ Enhanced Oil Recovery

◆ **O&G Downstream Operations**

◆ **Geothermal Industry**


◆ **Hydrogeology**

◆ **Health, Safety, Environment & Quality**

◆ **Cosmetics & Wellness Industry**

◆ **Other Courses**

- ◆ Software
- ◆ Projects Management
- ◆ Train the Trainers
- ◆ Drilling for non-drilling personnel
- ◆ Technical English Courses

<p>Do it "At Home"</p>	<p>In-House Training Solutions</p>
	<p>In-house training allows you to maximize training process by reaching more personnel at the same time.</p> <p>All In-house Training courses are fully analyzed and reports delivered to continuously improve performance and deliverability</p> <p>Fly our Instructors to your location, reducing logistics costs!</p>
<p>Do it with us</p>	<p>Training Centers</p>
	<p>GTI and Nadoil can also welcome you in their own training centers, available in France (Nadoil) and in the Philippines (GTIS).</p> <p>Facing more and more demands from our Clients, we are currently in the process of upgrading our facilities with the construction of new centers, adding in particular laboratories in The Philippines for practical trainings.</p>
<p>On-the-Job Solutions</p>	<p>OJT & OJC, on-site training support</p>
	<p>On-the-Job Training or On-The-Job Coaching are solutions that allow development of personnel on their actual working environment.</p> <p>It deals with a mid- to long-term process that leads to proper Standards to be implemented on your Operations.</p> <p>Our Instructors have a wide experience in mentoring and coaching trainees on site, also highlighting HSE policies of the Clients directly applicable to daily duties.</p> <p>Contact us, and let us manage the full OJT/OJC process on your behalf.</p> <div data-bbox="852 1778 1129 1948">  </div>



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Chemistry Courses



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Course ID:

GTIS-CHEM-001

Gas Chemistry

Course of Interest for

Mud Engineers

Chemists

Chemical engineers

Observable properties

Basic laws

Moles & mixtures

KMT-1 (lite)

KMT-2 (classic)

Course Duration:

2 days

Real gases

Working Safe in Gas Environment

Course includes:

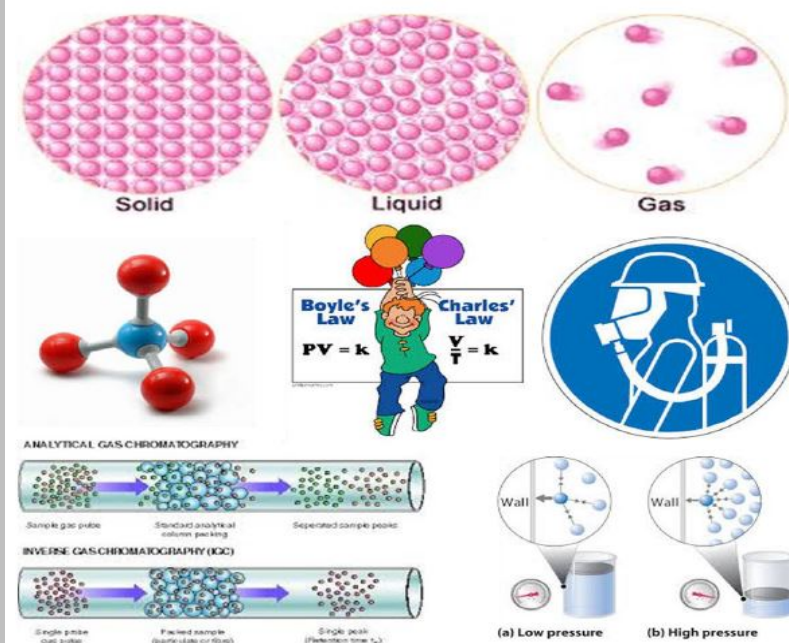
Training Materials


Training Certificates

End-of-Course Report

Customized Toolbox

This course covers the gaseous state of matter. It includes numerous examples of application of kinetic molecular theory and discusses real gases



Course ID:	Oilfield Chemicals Integrated Course (Advanced)	
GTIS-CHEM-002		
Course of Interest for	Corrosion	
Production Engineers	Corrosive agents	
Facilities Engineers	Corrosion inhibitor selection and application	
	Predicating and monitoring corrosion rates	
	Basics of oil field emulsions	
Chemists and technicians	Demulsifier selection and field application	
Government employees	Foams	
HSE Engineers	Defoamers	
	Foam basics	
	Field application of foams	
	How defoamers work	
Course Duration:	Scales	
5 days	Compounds that cause scaling	
	Predication of scaling tendency	
	Scale inhibitors	
Course includes:	Solvents to dissolve scales	
Training Materials	Gas Hydrates	
Training Certicates	Requirements for gas hydrates to form	
End-of-Course Report	Types of compounds used to control hydrate formation	
Customized Toolbox	Wax Control	
	Causes of paraffin (wax) problems	
	Paraffin treatment chemicals	
	Asphaltene stability tests	
	Asphaltene treatment chemicals	
This course covers the selection and use of chemicals used in oil and gas production. It includes methods to determine the need for chemical treating, how to select the proper chemicals, and how testing for chemical compatibility with the formation and other chemicals is performed. Requirements for environmentally friendly products and products for deep water production are discussed.	H2S Control	
	Chemicals used as H2S scavengers	
	Application of scavengers	
	Environmental Impact	
	Oil carryover in water	
	Removal of oil and oily solids	
	Tests required for chemicals used in deepwater	
	Green chemicals (Environmentally friendly chemicals)	
	International guidelines	
		

Course ID:

GTIS-CHEM-003

Surfactants Course**Course of Interest for**

Sr. Mud Engineers

Industrial chemists

Polymer and materials scientists

Chemical engineers

Surfactant chemical structures

Surfactants organization

Why surfactants self-assemble into micelles and vesicles?

Understanding self assembly through molecular packing parameter

Behavior of surfactants in aqueous solutions

Manipulating surfactant behavior through mixtures

Solubilization in surfactant systems

Droplet and bicontinuous microemulsions

Course Duration:

5 days

Block copolymer surfactants and micelle formation

Solubilization in block copolymer micelles

Course includes:

Applications to O&G industry

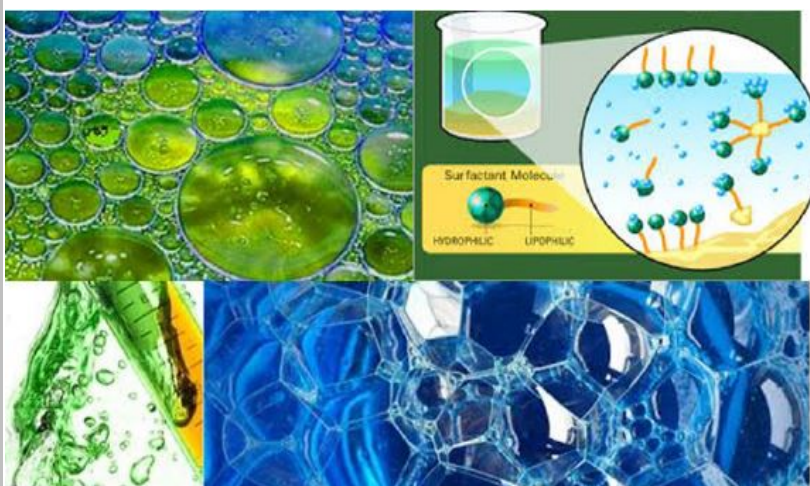
Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course will provide fundamental background so that attendees can take advantage of more efficient and rational approach to surfactant selection and use in their work



Course ID:

GTIS-CHEM-004

Polymers Course**Course of Interest for**

Sr. Mud Engineers

Research chemist

Engineers, physicist, or
technician who works with
polymers and applications

Managers in polymer industry

Polymer synthesis
Molecular weight determination
Characterization of rheological and viscoelastic behaviorPolymer structure and morphology
Mechanical testing

Elastomers, plastics, and fibers

Adhesion and composites

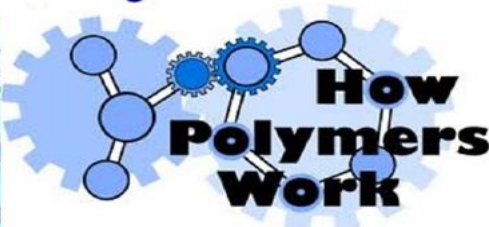
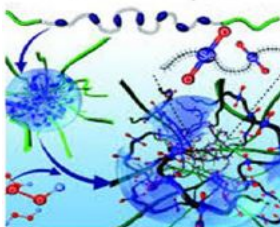
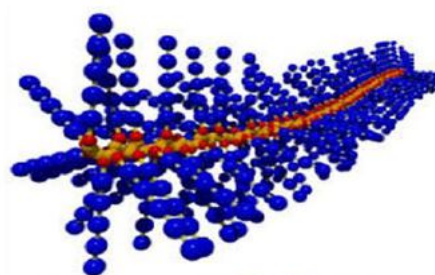
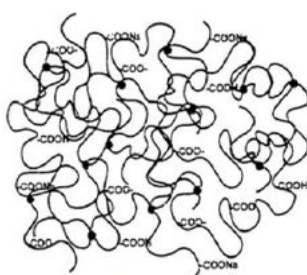
Properties of polymers discussed as functions of
Chemical composition
Molecular weight
Topology
Morphology**Course Duration:**

6 days

Degradation of Polymers

Course includes:Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

This course is designed for
attendees to gain better
understanding of polymer
structure, morphology and
properties



Course ID:

GTIS-CHEM-005

Oilfield Waters Course**Course of Interest for**

Surface facilities operation engineers

Production chemistry engineers

Flow assurance engineers

Production engineers

Properties of produced water

Environmental regulations

Water specifications

Factors affecting water treatment

Process and equipment design

Chemical treatment

Chemicals used in water treatment

Study of water treatment real cases

Injection water treatment

Course Duration:

2 days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox



This course will explore all theories and technologies involved produced water treatment



Course ID:

GTIS-CHEM-006

Oil Desalting Course**Course of Interest for**

Surface facilities operation engineers

Production chemistry engineers

Flow assurance engineers

Production engineers

Main problems of salty crude oil

Desalters: equipment and technology

Operation and design considerations

Life cycle costing for selection considerations

Course Duration:

1 day

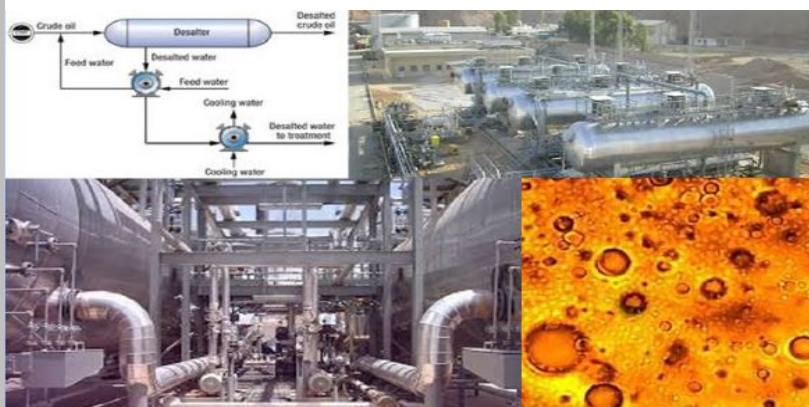
Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox



The course will discuss desalting technologies and processes needed to achieve the required oil specifications



Course ID:

GTIS-CHEM-007

Electrochemistry Course**Course of Interest for**

Sr. Mud Engineers

Chemists

Materials scientists

Chemical engineers

Chemistry and electricity

Electrochemical cells

Prediction and significance of cell potentials

The Nernst equation

Batteries and fuel cells

Electrochemical Corrosion

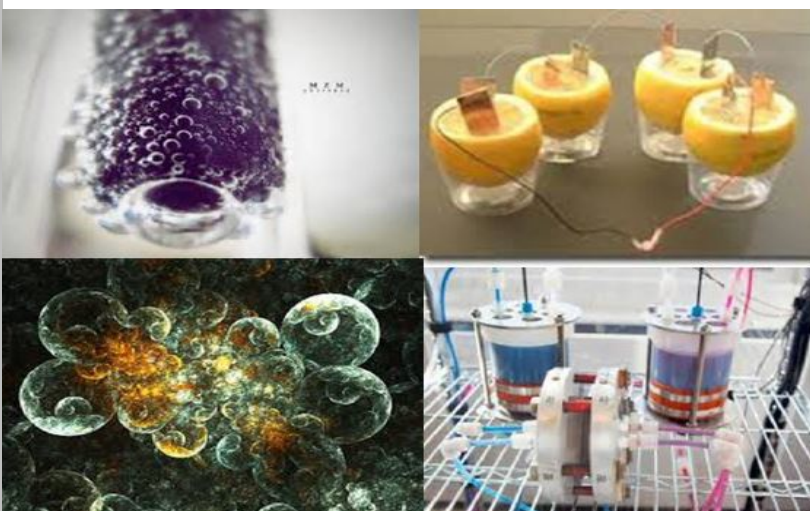
Course Duration:

2 days

Electrolytic cells

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox



**This course covers elementary
electrochemistry**



Course ID:

GTIS-CHEM-008

Best Practices in the Laboratory**Course of Interest for**

Lab managers

Lab supervisors

Scientists & technical assistants

Standard Operating Procedures (SOP's).

Statistical procedures for data evaluation

Instrumentation validation

Reagent/materials certification

Analyst certification

Course Duration:

3 days

Lab facilities certification

Specimen/Sample tracking

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox



This course provides coaching and mentoring of lab employees to ensure compliance with Best Practices to operate a laboratory



Course ID:

GTIS-CHEM-009

Natural Gas Measurement–Fundamentals**Course of Interest for**

Gas measurement technicians

Gas analysts

Gas Production Engineers

Auditors in natural gas
measurement

Units of measurement

Natural gas chemistry

Physical behavior

Volume determinations

Orifice meter–general

Orifice meter–gas

Turbine meter–gas

Ultrasonic gas meter

Positive displacement meter

Coriolis mass force gas meter

Course Duration:

3 days

Course includes:

Training Materials

Training Certificates


End-of-Course Report


Customized Toolbox




This course covers basics of physical and chemical makeup of gas mixtures, how mixtures are affected by temperature and pressure. It explains how to analyze and determine good measurement and how to obtain it; It also covers fundamentals of volume determination devices



Course ID:	Laboratory Analysis Techniques for Oil & Gas Applications
GTIS-CHEM-010	
Course of Interest for	Role and responsibilities of laboratory staff
Laboratory personnel	Production Staff: Equipment yields controls/monitoring Final product quality controls/monitoring Recommendations to improve treatments
Operational staff	Analysis specific to crude oil
Other professionals interested in lab analysis for oil and gas operations	Specific gravity or Density Vapor Pressure (Reid VP) Water content: BSW, Dean Stark distillation Salt content: Chlorides content, Conductimetry Acid components content H2S content (Methylene Blue) H2S & Mercaptans by Potentiometry Total Acid Number (TAN) of liquid Hydrocarbons Fluid rheology: Pour point, Kinematic viscosity, Wax content
Course Duration:	Analysis specific to gas
5 days	Gas characterization analysis Dew Point (HC & Water) Gas composition by Gas Phase Chromatography (GPC) Gas Specific Gravity estimate from composition Acid components content H2S content (Dräger), H2S & Mercaptans content (Potentiometry, I CO2 content (Dräger & Acidimetry)
Course includes:	Analysis for follow-up of effluent treatment operations
Training Materials	Demulsifiers evaluation & selection (Bottle Tests, Field Tests)
Training Certificates	Quality controls/monitoring of poor and rich Triethyleneglycol (TEG)
End-of-Course Report	Water content, pH
Customized Toolbox	Hydrocarbon content Equipment performances: Water content, Residual emulsion
This course provides comprehensive knowledge of and develop practical skills in conducting reliable and safe laboratory analyses for the oil and gas industry	Laboratory visit
	Deposits and scale analyses
	Chemical corrosion and bacterial corrosion appraisal Recommendations for chemical additives and treatments
	HSE in laboratory activities
	Laboratory facilities design and implementation Chemicals management (storage, use...) Occupational Health and Safety behavior
	

Course ID:	Laboratory Health & Safety	
GTIS-CHEM-011		
Course of Interest for	Important aspects of chemical hygiene and safety	
Lab managers	Hazard identification and control measures	
Lab supervisors	Codes, standards, and practices for laboratory safety and health	
Scientists & technical assistants	Effective storage, labeling, safe handling, and control of hazardous chemicals	
	Causes of accidents and prevention strategies	
Course Duration:	Health hazards of chemicals	
3 days	Proper selection and use of personal protective equipment	
	Effective training, Required record keeping	
Course includes:	Hazard analysis for lab work	
Training Materials	How to measure success	
Training Certificates	Laboratory vs. Hazard Communication Standard	
End-of-Course Report	Developing/Auditing Chemical Hygiene Plans	
Customized Toolbox	Laboratory Ventilation	
	Safe Handling of Compressed Gases	
	Electrical Safety, Controlling Hazardous Energy	
This course will give an overview of practical and latest regulatory measures for the prevention of accidents, incidents, or exposures that may cause health impairment, injury, fire, or interference with laboratory operations. It includes OSHA training requirements. Registrants are invited to bring case histories, problems descriptions for evaluation and discussion	Handling Lab Emergencies	
		

Course ID:	Emulsions Course	
GTIS-CHEM-012		
Course of Interest for	Emulsion Concepts	
R&D Technicians & Engineers	Designing Emulsions	
Chemists	Where to Start	
Process Engineers	How to get a Specific Feel	
	Ingredients	
	Emulsifier Behavior	
	Emulsifier Location and Phases	
	Polymeric Emulsifiers	
	Emulsions without Emulsifiers	
Course Duration:	Making Emulsions	
3 days	Formulating methods	
	Ingredient	
	Mixing	
	Homogenization	
Course includes:	Heat transfer	
Training Materials	Scale up Effect	
Training Certificates	Evaluation and Testing	
End-of-Course Report	Stability	
Customized Toolbox	Efficacy	
	Safety	
	Preservation	
	Claim substantiation	
	Use of the microscope	
This course provides understanding on fundamental solution properties of emulsions an microemulsions, how to make and evaluate them	Microemulsions	
	Phenomenon of Microemulsion Formation	
	Droplet Microemulsions	
	Bicontinuous Microemulsions	
	Phase Diagrams	
	Size and Composition Dispersion of Droplets	
	Persistence Length in Bicontinuous Microemulsions	
	Calculation of Interfacial Tension	
	Phase Transitions Between Microemulsion Systems	
	Nonionic Microemulsions	
	Microemulsions With Ionic Surfactants	
	Use of Cosurfactants	
		



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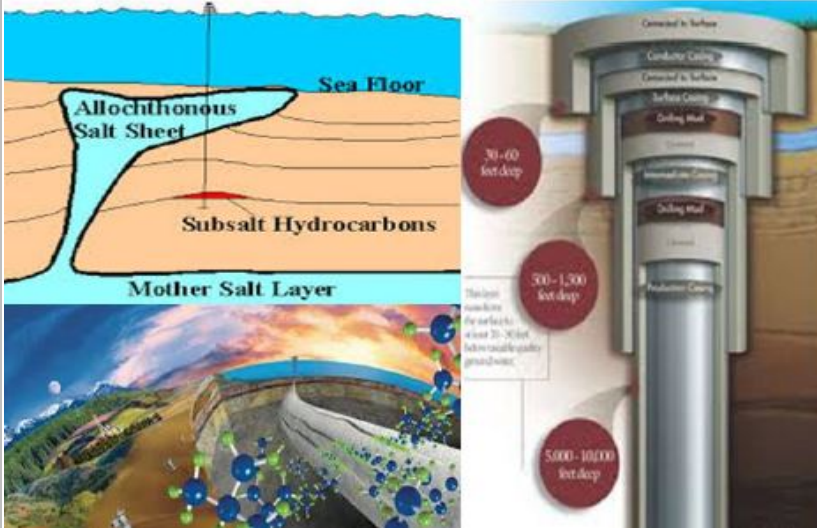

Cementing Courses

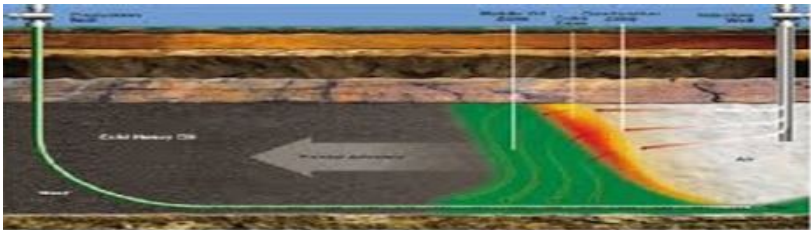
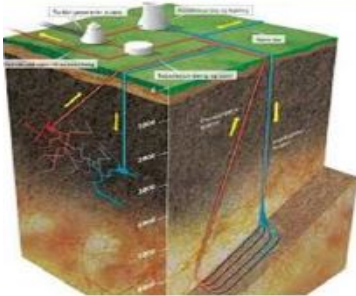
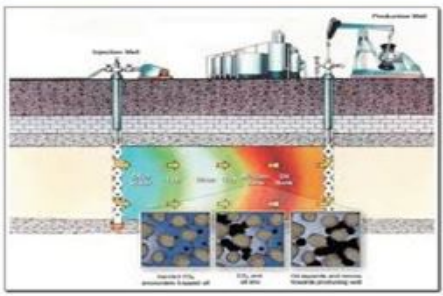



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Course ID:	Integrated Cement Seminar
GTIS-CMTS-001	
Course of Interest for	Principles of Cementing
Petroleum Engineers	Cement Chemistry
Drilling Engineers	Clinker & Hydration
Fluids/Cement Specialists	Composition of Cement Slurry
personnel having to manage cement service companies	Cement Lab Induction
Cement Lab Chemists	Mud Removal
Course Duration:	Operational Concerns
7 days	Cementing Operations: Process & Responsibilities
Optional:	LOT vs. FIT
1 week lab practice if laboratory is available	Operations Records
	Designing a balanced plug
	Remedial Jobs: Squeeze cementing
	Multi stage job or not? 2 case studies
	Horizontal Liner Cement Jobs
	Lost Circulation vs. Cementing Operations
Course includes:	Foam Cements, Light Weight Cements, Expansive Cements
Training Materials	Cement Job Evaluation
Training Certificates	Hydraulic Testing
End-of-Course Report	Temperature, Nuclear and Noise Loggings
Customized Toolbox	Acoustic Measurements
	Equipment for Cementing Operations
	Simulation with Software
	Use of Cement21 from Maurer or Client software
This course is designed to give advanced understanding on slurry design and operational aspects of Cementing Operations. It also covers cement chemistry and Cement Jobs Evaluation	
	

Course ID:	Mud Removal Course
GTIS-CMTS-002	
Course of Interest for	Fluids Aspects of Mud Removal
Petroleum Engineers	Incompatibilities
Drilling Engineers	Spacers & Washers
Mud Engineers	Impact of Spacer on Hydrostatic
Cement Lab Chemists	Spacer's viscosity
	Compatibility of Spacer with other fluids
	Spacer's Wettability
	Erodibility
	Chemical Washes
Course Duration:	Wiper Plugs
2 days	Mechanical Aspects of Mud Removal
Course includes:	Wiper Trips & Pipe Centralization
Training Materials	Caliper
Training Certificates	Casing Centralization
End-of-Course Report	Scratchers
Customized Toolbox	Flow Aspects of Mud Removal
	Type of Flow
	Casing Stand-Off
	Surfactants
	Structure and Chemistry of surfactants
	HLB
	CMC and Surface Tension
	Types of Surfactants
This course is intended to deliver full understanding on mud removal, parameters influencing it and solutions to achieve best performance to ensure optimum cement operations and maximum zonal isolation	

Course ID:	Salt Zone Cementing Course
GTIS-CMTS-003	
Course of Interest for	
Petroleum Engineers	All About Salts Chemistry
Drilling Engineers	Salt Cement
Fluids/Cement Specialists	Impact of Salt on Cement Characteristics Case History: Design of Salt Cement Aluminum Powder Calcined magnesium oxides BFS (slag cement)
personnel having to manage cement service companies	
Cement Lab Chemists	Factors impacting Expansion
Course Duration:	
1 day	
Course includes:	
Training Materials	
Training Certificates	
End-of-Course Report	
Customized Toolbox	
This course is covering all aspects of Salt Cementing Operations, from salt chemistry to cement designs and properties.	 <p>The diagram illustrates the geological context of salt zone cementing. It shows a cross-section of the sea floor with an allochthonous salt sheet, subsalt hydrocarbons, and a mother salt layer. A wellbore is shown passing through these layers. A detailed view of the wellbore shows the casing, cement, and production casing. The wellbore is divided into sections with labels for depth ranges: 20-60 feet deep, 300-1,300 feet deep, and 5,000-10,000 feet deep. The wellbore is also labeled with 'Connected to Surface', 'Casing Casing', 'Cemented to Surface', 'Surface Casing', 'Drilling Mud', 'Cement', 'Internal Casing', 'Drilling Mud', 'Cement', and 'Production Casing'.</p>
	 <p>The logo for GTI SERVICES, featuring a stylized globe with the text 'GTI SERVICES' below it.</p>

Course ID:	HPHT Cementing Course
GTIS-CMTS-004	
Course of Interest for	HPHT Cementing Challenges
Petroleum Engineers	Targets for Designing HPHT Cement Slurries
Drilling Engineers	Properties of HPHT Cements
Fluids/Cement Specialists	Thickening Time & CS development
personnel having to manage cement service companies	Rheology
	Fluid-Loss Control
	Long-term performance
Cement Lab Chemists	BFS Slurries (Slag Cement)
Geothermal drilling teams	Thermal Cements
	HT Chemistry of Portland Cement
	High-Alumina Cement
	Class J Cement
	Calcium Aluminosilicate Systems
	Calcium Phosphate Systems
Course Duration:	Geothermal Wells Cementing
2 days	Thermal Recovery Wells
Course includes:	Case Histories: High-density elastic cement in South Texas
Training Materials	
Training Certificates	
End-of-Course Report	
Customized Toolbox	
This course is a technical review of HPHT wells Cementing Challenges and describes technical solutions available for HPHT wells, including Thermal Recovery wells and geothermal wells	  
	

Course ID: GTIS-CMTS-005	Introduction to Cement Engineering Operations for Jr. Drilling Supervisors and Non-Technical Personnel
Course of Interest for Jr. Drilling Supervisors Jr. Ops Engineers Finance staff Technical Assistants	Principles of Cementing Cement Clinker & Hydration Cement Description & Characterization Cement Hydration Process Cement Life: Bulk, Slurry, set Material Composition of Cement Slurry
Course Duration: 1 day	Mud Removal Operational Concerns
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	Cement Job Evaluation Equipment for Cementing Operations Simulation with software
<p> This short course provides a quick overview of cement engineering operations to newcomers, non-technical and finance staff. Objective is to deliver comprehensive information to enhance communication between departments and bring additional value to cement contract management </p>	
	

Course ID:

GTIS-CMTS-006

Cement Remediation**Course of Interest for**

Asset Managers

Drilling and Completion
Engineers

Petroleum engineers

Geologists,

Production Managers and
EngineersReservoir Managers and
Engineers

HSE Engineers

Problems Associated With Primary Cementing

Squeeze Cementing

Plug Cementing

Cementing Temperature Issues for Squeezes/Plugs

Laboratory Testing Procedure

Improved Techniques for Remedial Cementing

Cement Evaluation Techniques

Guidelines

Course Duration:

3 days

Course includes:

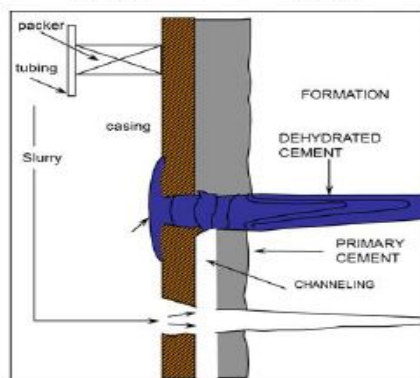
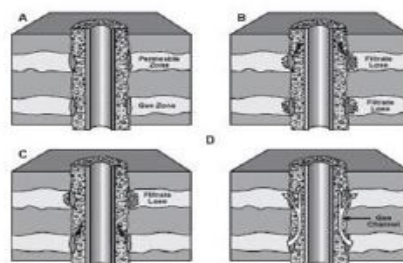
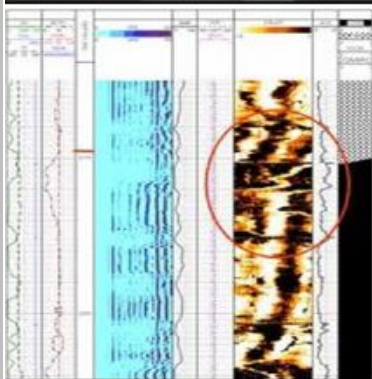
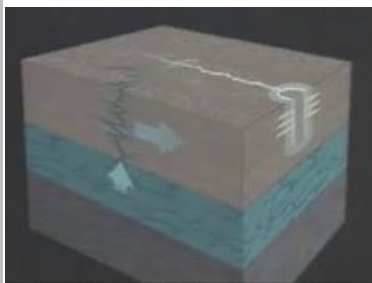
Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Objective of the course is to evaluate and discuss various technologies used to repair wellbore communication paths due to wellbore aging that can develop allowing fluid to migrate from the high pressure downhole strata through leakage paths in the cement containment





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Drilling & Completion Courses





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Course ID:	Basic Drilling, Completion & W/O Course	
GTIS-DRCO-001		
Course of Interest for	Drilling process;	
Junior Engineers	Well Construction	
Data Engineers	Specific terms & acronyms of Drilling Reservoir rock and fluid properties	
Mud Engineers	Drilling string components & BHA	
Production Personnel	Drilling fluids & hydraulics	
Non-technical Personnel	Induction to Well control	
	Hole problems & stuck pipe	
	Primary cementing	
	Directional, horizontal, multilateral & under-balanced drilling	
	Wellhead & trees	
Course Duration:	Overview of Completion process;	
5 days	Zonal isolation	
	Tubing, packers & completion equipment	
	Safety & flow control devices	
	Open hole completions	
	Completion types	
	Perforating	
	Open & cased hole logging	
	Formation damage & treatment Completion fluids	
Course includes:	Overview of workover techniques:	
Training Materials	Stimulation application;	
Training Certificates	Surfactants	
End-of-Course Report	Solvents	
Customized Toolbox	Acidizing	
	Fracturing & deep perforating	
	Formation & sand control	
	Screens	
	Chemical consolidation	
	Gravel packing	
	Frac-pack	
	New Techniques	
	Scale & corrosion	
	Paraffin & asphaltenes	
	Workover Operations	
	Recompletion	
	Sidetracking	
	Deepening	
	Coiled tubing	
This course is designed to provide basic training on drilling and completion operations, including equipment, fluids and hydraulics		

Course ID:	Well Control Induction
GTIS-DRCO-002	
Course of Interest for	NOTE: Course does NOT deliver IWCF/IADC certificates
Rig Crew	
Mud Engineers	Primary well control
Cementing Engineers	Causes of kicks
Mud Loggers	Indications of kicks
	Basic wellbore calculations
	Normal and abnormal formation pressures
Course Duration:	Hydrostatic exercises
4 days	Pressure losses & Equivalent circulating densities
Course includes:	Leak-off tests
Training Materials	Equivalent mud weights
Training Certificates	Maximum mud weights - Frac Pressure
End-of-Course Report	Introduction to kill sheet
Customized Toolbox	Introduction to Well Control equipment
This course is designed to give rig personnel an awareness of Well Control theory, practices and equipment	
	

Course ID:	Underbalanced Drilling	
GTIS-DRCO-003		
Course of Interest for	Basic Principles of Managed Pressure Drilling	
Drilling Engineers	Definitions	
Drilling Managers	Implications of narrow pore pressure and fracture	
	Pressures windows on well design & well control	
Supervisors	Dynamic factors affecting BHP	
	Examples	
Superintendents	Mud Cap Drilling	
Rig Managers	Pressurized and floating mud cap	
	Mud Cap Operations	
Mud Engineers	MPD Equipment	
Course Duration:	Rotating Control Devices	
	Chokes	
5 days	Drill Pipe non return valves	
	Annular valves	
Course includes:	ECD Reduction Tools	
	Coriolis Flow meter, friction pump	
Training Materials	MPD using Pressure as Primary Control	
Training Certificates	Opened & closed back-pressure systems	
End-of-Course Report	Automated back-pressure systems	
Customized Toolbox	Continuous circulating systems	
This course is designed to introduce Under Balanced Drilling Technologies to Drilling Team and to point-out main features of technologies	MPD using Flow as Primary Control	
	Process description	
	Equipment	
	Applications	
	UBD	
	Objectives and applications	
	Equipment and operations	
		
		

Course ID:	Advanced Stuck Pipe Course	
GTIS-DRCO-004		
Course of Interest for	Problem of stuck pipe	
Tool Pushers	Causes of Stuck Pipe	
Drillers	Differential Sticking	
	Hole Cleaning (Mud Properties, ROP)	
	Mechanical sticking (Wellbore stability, stabilization,...)	
Drilling Supervisors	Bottom hole assemblies	
Mud Engineers	Stuck pipe Prevention & Recommendations	
Mud loggers	Predicting stuck pipe	
	Warning signs of stuck pipe	
	Hole cleaning procedures & Optimization	
	Mud properties	
Course Duration:	Freeing stuck pipe	
4 days	Jarring systems	
	Pipe Release Agent pills	
Course includes:	Economics of stuck pipe	
Training Materials	Case histories	
Training Certificates	Using Decision Tool	
End-of-Course Report		
Customized Toolbox		
Decision tool		
This course is designed to provide an in-depth understanding of stuck pipe phenomena and prevention along with mechanical and chemicals solutions available to solve problems		
		

Course ID:

GTIS-DRCO-005

Surface & Mud Logging

Course of Interest for

Technicians and Engineers
onsite

New comers in mud logging

Drilling Engineers

Mud Engineers

Course Duration:

6 days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

This course is designed to provide overview of mud logging operations and equipment, understanding and interpretation of logs acquired while drilling

Introduction

History and technical evolution
Purpose of surface logging service
Surface Logging Unit acquisition system
Equipment for geological data acquisition
Lithological and formation fluid analysis

Equipment

Equipment for drilling parameters determination & measurements
Typology of the main sensors used
Equipment for hydrocarbon gas detection & measurements
Typology of gas shows
Gas detection system (gas trap, gas line, analysers)
Equipment for non-HC gas detection & measurements

Data Processing

Data presentation and reporting
Processing & interpretation of surface logging data
Gas data (conventional approach, GWD)
Carbonate reservoir (gas analysis, losses analysis)
Drilling parameters (drilling optimisation, hydraulics, overpressure detection)
Quality Control (Unit, Sensors, Calibration)
Wellsite charts interpretation (time and depth basis)
Master Log interpretation
Composite Log



Course ID:

GTIS-DRCO-006

Artificial Lift

Course of Interest for

Drilling Engineers

Completion Engineers

Mud Engineers

All personnel working on
Productivity

Components of sucker rod pumping system

Alternative configurations of components & applications

Operation of overall system

Function of components in downhole sucker rod pumping system

Operating principle of oilfield surface equipment

Gas Lift Systems

Operational and Design Aspects of Gas Lift systems

Electric Submersible Pumping Systems

Course Duration:

5 days

Maintenance operations in Artificial Lift

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course is designed to describe artificial lift technologies, including equipment and maintenance operations



Course ID:

GTIS-DRCO-007

Basics on Perforations

Course of Interest for

Drilling Engineers

Completion Engineers

Mud Engineers

All personnel working on
Productivity

Basic perforating components, equipment, operations,
and design considerations

Safety measures taken in perforating operations

Principles behind a shaped charge

Deployment options and equipment for perforating guns

Differentiate wireline-deployed and tubing-deployed depth
correlation methods

Operation of basic firing mechanism for perforating guns

Course Duration:

5 days

Types of firing actuation

Operation of mechanical-based and pressure-based firing
actuators

Course includes:

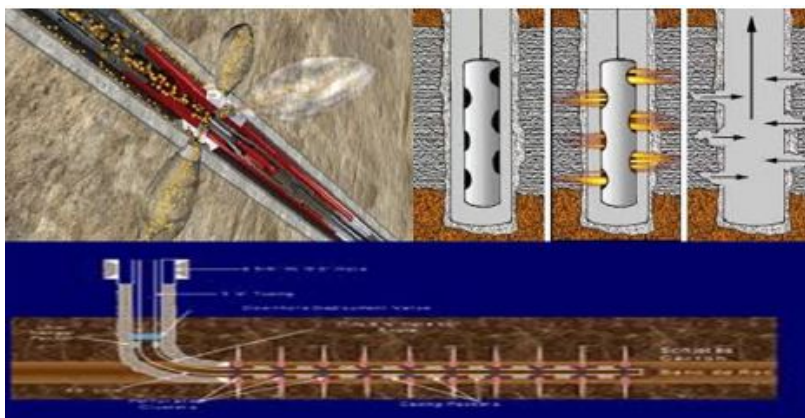
Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

**This course is designed so
that attendees will better
understand perforations
operations, equipment, state
of the art and tools selection**



Course ID:

GTIS-DRCO-008

Drilling Hydraulics

Course of Interest for

Drilling Engineers

Completion Engineers

Mud Engineers

All personnel working on
Rigsite

Introduction to Rotary Drilling Hydraulics

Annular Hydraulics

Pressure & Pressure Drop

Review and use of API 13-D

Hydraulics Optimization

Mud Pumps Sizing

Swab & Surge Pressures

Course Duration:

3 days

Impact of Drilling Parameters on Hydraulics

Concept of ECD Management

Course includes:

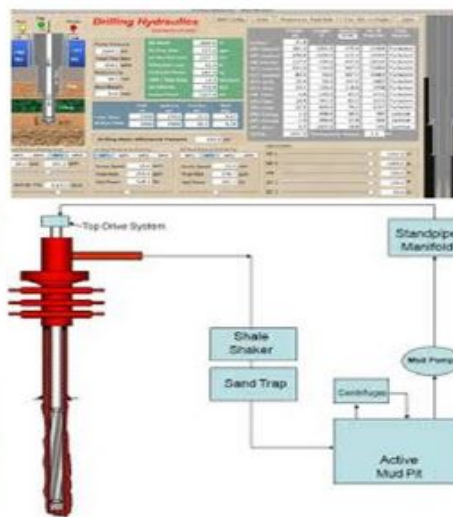
Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course intends to give in-depth overview of hydraulics calculations used in drilling wells and to demistify "black-box" software computations. It also relates hydraulics to ECD management and hole cleaning concepts



Course ID:

GTIS-DRCO-009

High Angle & Extended-Reach Drilling Wells**Course of Interest for**

Drilling Engineers

Directional Drillers

Rig Managers & Toolpushers

Mud Engineers

Drainage Area Estimation

Engineering Design

Types of wells and Rig Location

Trajectory Planning

Surveying

Tubular Design & Failure Analysis

Course Duration:

6 days

BHA Design

Torque & Drag and Buckling Fundamentals

Hole Cleaning

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Tripping Practices

ECD Management

Casing Running, Swab & Surge and Casing Wear

Horizontal Well Cementing

Centralization programming

Horizontal Well with multi-frac treatments

This course is designed to give advanced understanding of Operations to be performed during planning and execution of horizontal and ERD wells drilling



Course ID:

GTIS-DRCO-010

'Making Hole' Course for Jr Engineers

Course of Interest for

Junior Engineers

Data Engineers

Sr. Mud Engineers

Responsibilities of a Drilling Engineer

Drilling Rig and Drilling Rig Systems

Hoisting System

Power System

Rotary System

Circulation System

Well Control System

Course Duration:

5 days

Pressure Control

Circulating Kick with Drillers Method

Circulating Kick with Engineers Method

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Casing Setting Depth Design

Formation Pressure Prediction

Mud Weight Selection

Formation Fracture Gradient Prediction

Selection of Casing Setting Depths

Drill Bit Selection

Drill Bit Characteristics

Rock Bit Terminology

Rock Failure Models

Drill Bit Selection Criteria

Trip Time

Optimal Weight on Bit Rotary Speeds

Contour Method

Dull Bit Grading

Drill Off Tests

This course is designed to provide drilling engineering understanding through all stages calculations related to Pressure Control and bit selection. Attendees will demonstrate their ability to design a well



Course ID:

GTIS-DRCO-011

Fundamentals of Casing Designs

Course of Interest for

Jr. Drilling Engineers

Sr. Fluids Engineers

Petroleum Engineers

Reservoir Engineers

Goals of casing design

Tubulars & Connections and size determination

Casing point selection

Load estimation methods for casing and liners

Typical design factors

Theories of strength and failure

Burst, Collapse

Axial failure

Yield basis for combined loads

Design examples for key loads and strings

Course Duration:

5 days

Casing handling, running and hanging practices

Course includes:

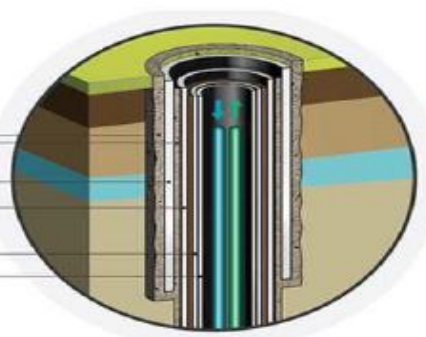
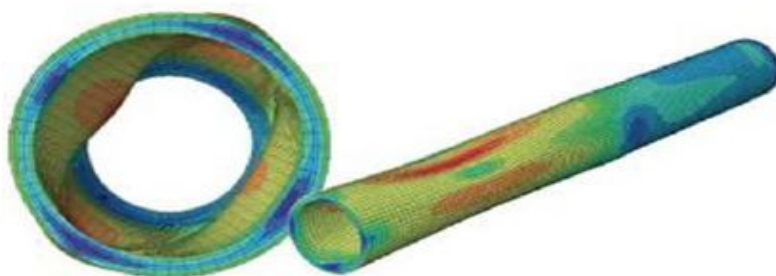
Training Materials


Training Certificates

End-of-Course Report

Customized Toolbox

This course provides a comprehensive overview of the design process, emphasizing the working stress approach currently used in the industry. On completion of this course, successful participants will be able to select casing points, identify tubular requirements and loads, and design and specify the required casing string



Course ID:	Well Completions
GTIS-DRCO-012	
Course of Interest for	Basic well completion design, practices, and strategies
Drilling Engineers	Well quality and integrity
Completion Engineers	Safety aspects of well design
Rig Managers & Toolpushers	Packer selection and tubing forces
Mud Engineers	Equipment Wellheads Chokes Subsurface safety valves Flow control equipment
Course Duration:	
5 days	Corrosion and erosion Inflow and tubing performance Tubing design and selection
Course includes:	Materials selection
Training Materials	Completions Considerations
Training Certificates	Deviated & multiple zones
End-of-Course Report	Subsea horizontal/multilateral wells
Customized Toolbox	HPHT completions
	Perforating design
	Causes and prevention of formation damage
	Stimulation design considerations
This course is an introduction to many facets of completion and intervention technology. It focuses on practical aspects of each technology, using design examples and both successes and failures to illustrate designs and risks involved during the whole process	Sand control Wireline/coiled tubing/workover rig operations Snubbing
	

Course ID:	Coring Operations and Core Analysis	
GTIS-DRCO-013		
Course of Interest for	Coring and core analysis objectives	
Reservoir Engineers	Coring Operations	
Exploration and Development Geologists	Coring hardware Maximizing core recovery Core-handling: wellsite procedures and preservation methods Sidewall coring and analysis	
Core and log Analysts	Core Analysis	
Geophysicists	Organizing effective laboratory programs Porosity, permeability and fluid saturation Quality control in core analysis Petrography and mineralogy Special core analysis sample selection and statistical data analysis	
Drilling and Completion Engineers	Core-log correlation (includes NMR log calibration, acoustic, nuclear)	
Government Officials	Wettability Relative permeability Capillary pressure Reservoir fluid distribution	
Course Duration:	Data integration in reservoir simulation	
5 days	Final problem: design of coring and core analysis program	
Course includes:		
Training Materials		
Training Certificates		
End-of-Course Report		
Customized Toolbox		
<p>This course intends to be a multidisciplinary course during which participants are taken through the steps necessary to obtain reliable core analysis data and solve formation evaluation problems. Participants are given hands-on problems and practical laboratory and field examples</p>		
		

Course ID:

GTIS-DRCO-014

Introduction to Casing While Drilling

Course of Interest for

Jr. Drilling Engineers

Sr. Fluids Engineers

Petroleum Engineers

Reservoir Engineers

Anyone exposed to
technology

Drilling with casing?

Technology description

Drillability analysis, drill bit knowledge

Bit record and dull grading

Basic log interpretation

Drilling exponent

Casing drill bit and casing drives

Hydraulics, Torque and Drag analysis

Cementing

Drilling with liner

Maturity level

Technology restrictions

Course Duration:

2 days

DwC Operations and economics

Know-How

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This fundamental course begins with an introduction to the DwC industry, key benefits of the technology, and the primary DwC systems employed by various operators. This is followed by selection of equipment for setting up a competent DwC system comprising of surface casing drive and handling equipment and downhole components.



Course ID:

GTIS-DRCO-015

Sand Control Course

Course of Interest for

Drilling, Completion,
Production and Research
Engineers

Field Supervisors

Production Foremen

Sand control techniques

Radial flow and formation damage

Causes and effects of sand production

Predicting sand production

Gravel pack design

Slotted liners and wire wrapped screens

Course Duration:

5 days

Gravel pack completion equipment and service tools

Well preparation for gravel packing

Perforating for gravel placement techniques

Perforation prepacking and enhanced prepacking

Frac packing

Open hole gravel packing

Expandable screens

Gravel pack performance

Horizontal well completions

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

This course identifies parameters that must be considered when selecting sand control technique to be used. Examples, problems and case histories will be examined to illustrate key points. It also teaches how to perform quality control checks during sand control application to help insure successful wells





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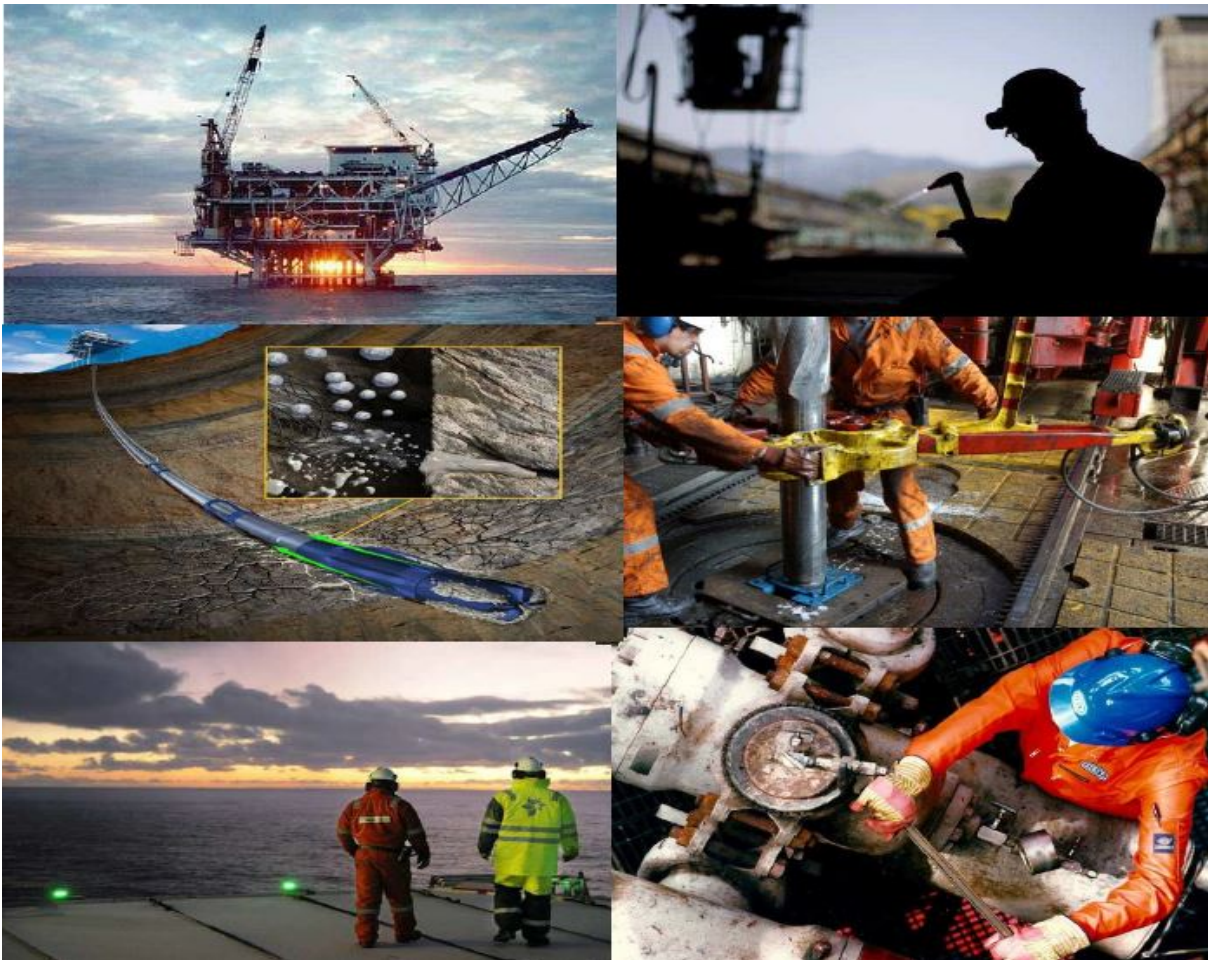


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Training Catalog - Rev. 2020

Corrosion Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID:

GTIS-CORR-001

Corrosion Management in Production/Processing Operations**Course of Interest for**

Managers

Engineers

Chemists

Operators

Fundamentals of corrosion theory

Major causes of corrosion (O_2 , CO_2 , H_2S , microbiologically influence

Forms of corrosion damage

Materials selection

Protective coatings & linings

Cathodic protection

Course Duration:

5 days

Corrosion inhibitors

Corrosion monitoring and inspection

Corrosion in gas processing facilities

Corrosion in water injection systems

Course includes:

Training Materials

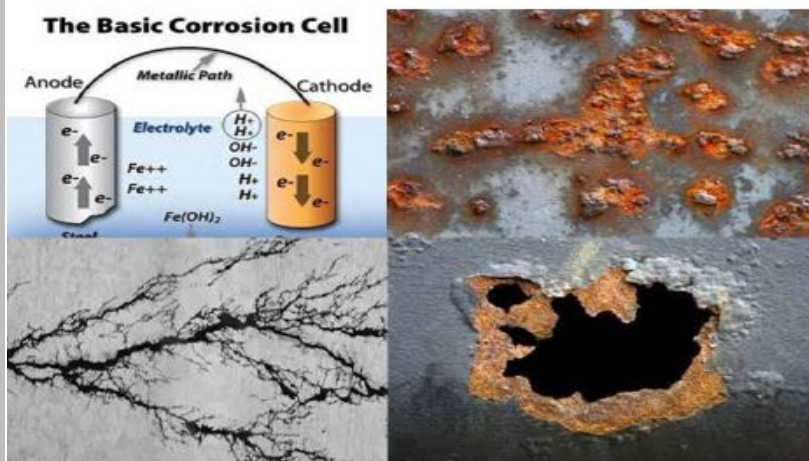
Training Certificates

End-of-Course Report

Customized Toolbox

Corrosion management strategy and life-cycle costs

This course provides an appropriate balance of necessary theory and practical applications to solve/mitigate corrosion related problems



Course ID:

GTIS-CORR-002

Corrosion Management and Microbiologically Influenced Corrosion**Course of Interest for**

Corrosion Engineers

Materials Engineers

Oilfield microbiologists

Production chemists

Asset integrity managers

Laboratory staff

Field staff

Basic corrosion management principles

Basic MIC mechanisms

Use of molecular microbiological methods (MMM)

Selection of MIC mitigation methods

Selection and interpretation of MIC monitoring methods

Case studies demonstrating MIC diagnostic tools

Sampling techniques/equipment

Course Duration:

2 days

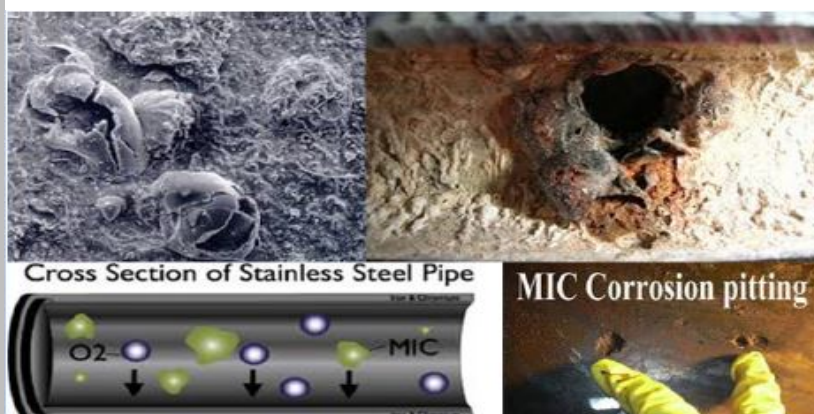
Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox



This course is an introduction to MIC and mitigation solutions



Course ID:

GTIS-CORR-003

Course of Interest for

Corrosion practitioners

Designers, Architects

Technical managers

Inspection Engineers

Maintenance Engineers

Quality Control Personnel

Course Duration:

5 Days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course covers fundamental aspects of corrosion control and its prevention to establish solid foundation in corrosion

Corrosion Control and Prevention - Basic Program

- Day 1 Definition of Corrosion
Corrosion & Society: economic, social, political and environmental impacts
Basic Concepts of Corrosion
Primer in Chemistry & Electrochemistry
Terminologies and Conventions
Exercise/Practical Session
- Day 2 Why do metals corrode?
Thermodynamics
Laws driving corrosion
Kinetics
Exercise/Practical Session
- Day 3 How do metals corrode?
Mechanisms, Recognition and Prevention
Exercise/Practical Session
- Day 4 Practical Corrosion Cells Important to Corrosion
Diagnosis
Corrosion in Specific Environments
Methods for Corrosion Control and Prevention (Part 1)

Exercise/Practical Session
- Day 5 Methods for Corrosion Control and Prevention (Part 2)

Corrosion Testing and Monitoring
Corrosion Modeling and Corrosion Prediction
Exercise/Practical Session
End of Course Examination



Course ID:

GTIS-CORR-004

Course of Interest for

Engineers, architects and designer concerned with corrosion of reinforced concrete structures

Building inspectors and surveyors

Technicians and maintenance personnel

Facility owners concerned with corrosion and method of mitigation

Course Duration:

2 days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox
Decision tool

This corrosion short course systematically and thoroughly covers the causes of corrosion in buildings and other concrete structures, and the practical prevention methods ranging from coatings and corrosion inhibitors to cathodic protection

Concrete Corrosion: Causes and Prevention**Corrosion & Society**

Economic, social, political & environmental impacts

Liabilities due to corrosion

Basic Concepts in Concrete Corrosion

Metal Corrosion Processes

Terminologies and Conventions

Processes in concrete corrosion

Processes in Concrete Corrosion

Corrosion of steel in aqueous environment

Corrosion of steel in concrete

Corrosion Reactions

How to Control & Prevent Concrete Corrosion

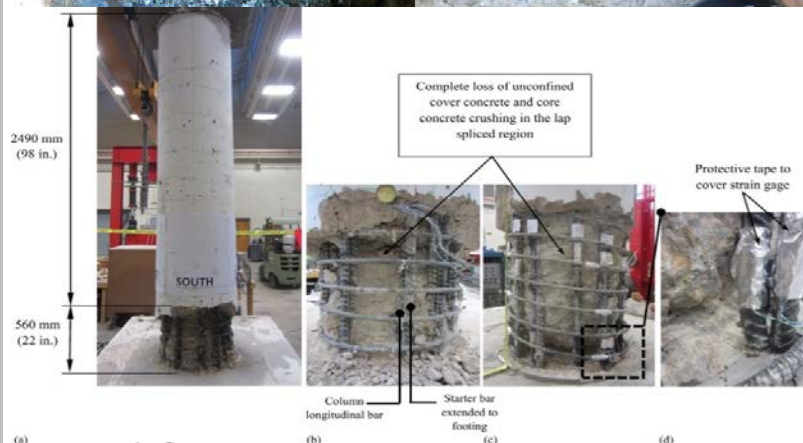
Concrete Quality

Patching, membranes and sealers

Inhibitors and Coatings

Galvanizing

Cathodic Protection

Testing and Monitoring Concrete Corrosion



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Environment Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID:

GTIS-ENVT-001

Carbon Capture Technologies

Course of Interest for

Production Engineers

R&D Engineers

Environment Engineers

Emissions and Climate Change

Carbon Sources

Use of Captured Carbon

Carbon Capture Approaches

Carbon Separation Technologies

Course Duration:

5 days

Post-combustion Chemical Absorption

IGCC with Physical Absorption

Adsorption

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox


Oxyfuel Process with Carbon Capture

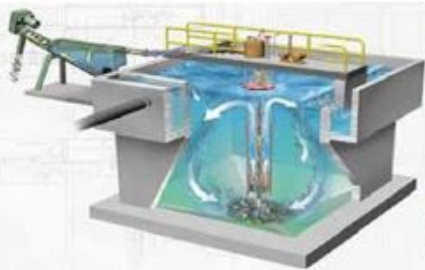


Chemical Looping Combustion

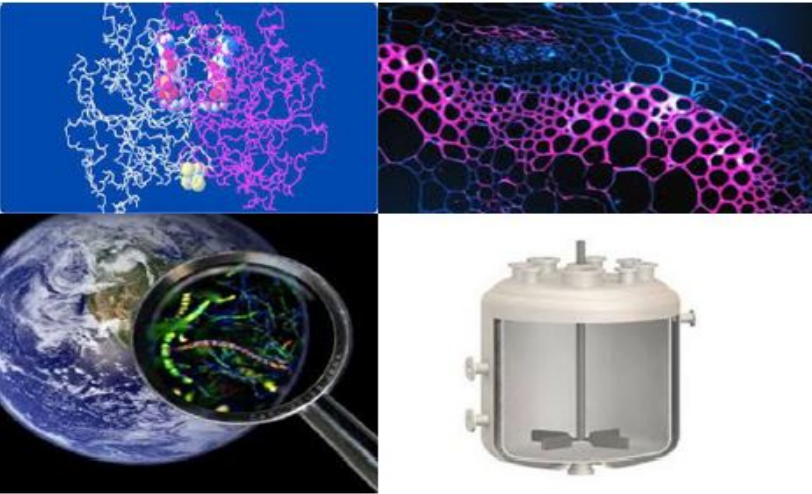

Membrane Technology

This course introduces to the delegates different technologies and strategies for CO₂ emission reduction from power generation and energy intensive industries.



Course ID:	Environmental Management	
GTIS-ENVT-002		
Course of Interest for	Environmental Pollution Introduction	
Engineers in power generation, energy, and process industries	Main ecological concepts Ecosystem processes The human dimension Environmental gradients, tolerance and adaptation Major biogeochemical cycles	
Environment Jr. Engineers		
HSE Engineers	Atmospheric Pollution	
	Sources, sinks and concentration trends for atmospheric pollutants	
Course Duration:	Environmental Impacts of Atmospheric Pollution	
5 days	Global issues (global warming; ozone-layer depletion) Regional issues (acid deposition; the Arctic haze) Urban air pollution Urban growth patterns Urban air pollutants Atmospheric pollution and human health Effects of atmospheric pollution on plants	
Course includes:		
Training Materials		
Training Certificates		
End-of-Course Report	Dispersal of Atmospheric Pollutants	
Customized Toolbox		
	Control of Atmospheric Pollution	
	Particulate pollutants, VOCs, SO ₂ , NO _x , CO ₂	
	Water Pollutants and Basic Treatment Principles	
	Water contaminants Overview of drinking water treatment processes Regulatory requirements for drinking water	
	Wastewater Pollutants and Basic Treatment Principles	
	Rationalization of wastewater quality Pollution measurement Overview of regulations Common wastewater treatment processes and principles	
A short course which considers the human impact on the environment and provides updated knowledge of pollution control equipment and environmental management systems and tools.	Treatment processes to achieve water/wastewater treatment	
	Solid Waste Management, & Recycling Composting, Anaerobic digestion, Gasification, Pyrolysis Refuse, Incineration, Disposal, EIA Laws & Regulations	
		

Course ID: GTIS-ENVT-003	Water and Wastewater Treatment Principles
Course of Interest for Production Engineers Production Operators Environment Engineers Water Treatment Plants Personnel	Classification significance and concentration ranges of impurities Suspended and dissolved solids Organic and inorganic compounds Trace contaminants Pathogens Physical methods for removing particulates Screening and grit removal Sedimentation Filtration
Course Duration: 5 days	Chemical dosing Precipitation Coagulation and flocculation processes Colloid science Disinfection Chemical oxidation
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	Adsorption and ion exchange Biological processes for wastewater treatment Aerobic Anaerobic Activated sludge, trickling filters and sludge digestion Pumping and process control systems and strategies Examples in treatment plants Flow sheets Unit operations
This course covers the conventional unit operations employed in water and wastewater treatment, including scientific engineering principles on which they are based	 
	

Course ID: GTIS-ENVT-004	Introduction to Process Science for the Water Industry
Course of Interest for Chemists Chemical Engineers Process Engineers HSE Engineers Course Duration: 5 days Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	Aqueous chemistry Moles and equivalents Solubility Acids, bases and alkalinity Kinetics Equilibria Surface science and electrochemistry Fundamental process principles Engineering and SI units Fluid mixing and flow through porous media Mass balance, Mass transfer Elementary chemical reactor theory Introductory cell biology Basic microbiology and biochemistry Classification and terminology Structure of biochemicals and biochemical pathways
<p>During this course attendees will acquire knowledge of basic principles of water chemistry, physics, microbiology and chemical engineering as applied to the treatment of water and wastewater.</p>	
	

Course ID:

GTIS-ENVT-005

Environmental Impact Assessment

Course of Interest for

all workers in the Industry

Purpose and aims of EIA

EIA administration and practice

Concept of associated assessment processes

Course Duration:

2 days

Key elements of the EIA process

Undertaking an EIA

Role of public participation

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Stages that follow EIA

Costs and benefits of undertaking EIA

Understanding of strengths and limitations of EIA



The course is designed to provide critical overview of theory and practice of EIA as operated internationally to those who need to understand EIA



Course ID:

GTIS-ENVT-006

Green Chemistry Seminar**Course of Interest for**

Production Engineers

Production Operators

Environment Engineers

Chemists

Students

Chemistry & Society

Green Chemistry

History of Green Chemistry

Why green chemistry?

What is green chemistry?

Key concepts

A word on Green Engineering

Concept of Sustainability

Life-Cycle Assessment

Course Duration:

3 days

Global Recognition of Green Chemistry

Drivers for change

Legislation

Sustainable Development

Factors affecting Sustainability

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Renewable resources

Progress in Green Chemistry

Pharmaceuticals Industry

Alternative Synthetic routes for feedstocks

Green Solvent

Biosorption

Designing safer chemicals

Green energy in conventional energy businesses

Green energy in mining industry

This seminar intends to introduce green and sustainability concepts.

Attendees will learn about the green chemistry principles and technologies



Course ID:

GTIS-ENVT-007

Site Remediation Course**Course of Interest for**

Drilling Engineers

Production Engineers

Environment Engineers

Chemists

Government Officials

Course Duration:

3 days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Course Under Preparation





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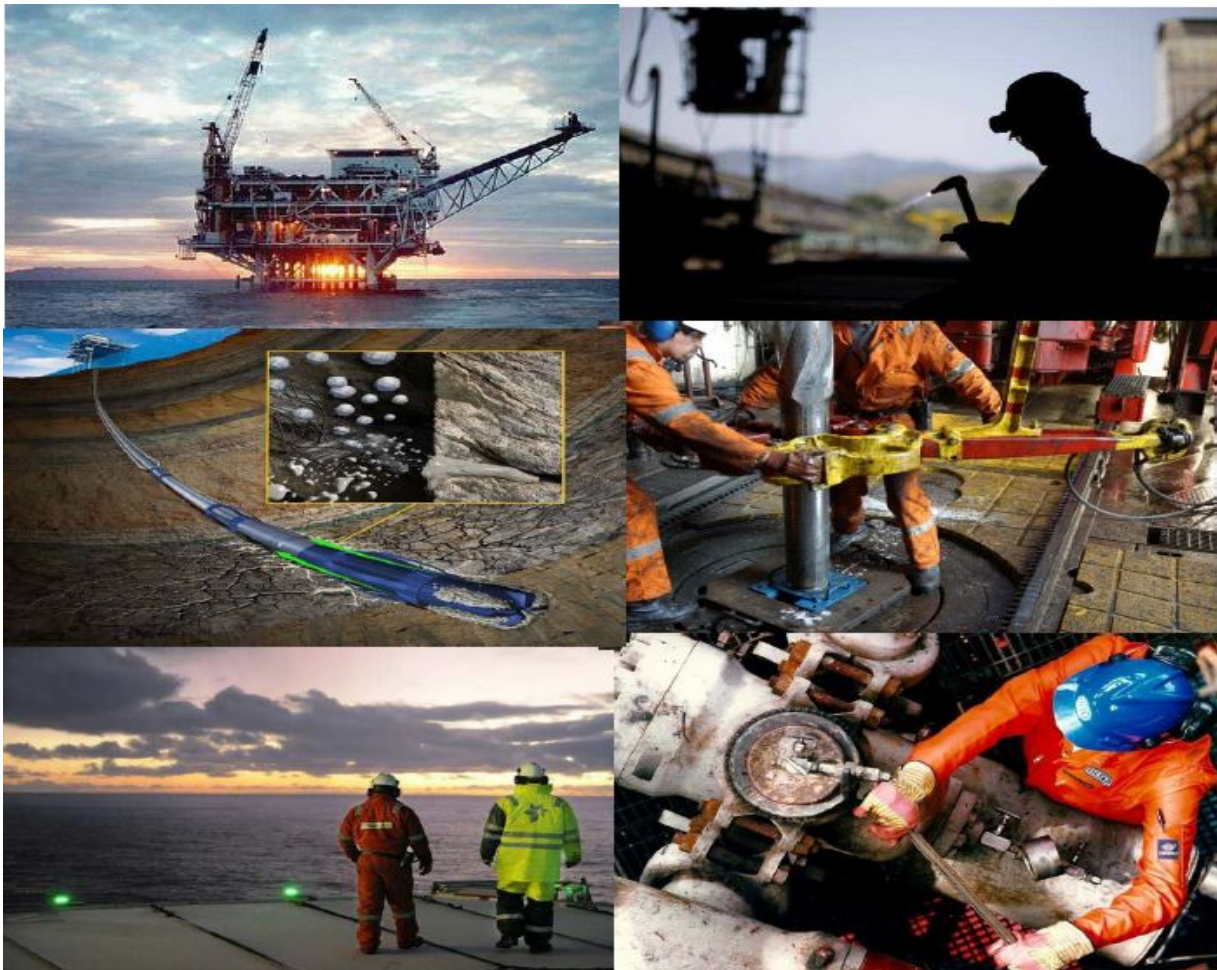


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Geology Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID:

GTIS-GEOL-001

Geology for Engineers**Course of Interest for**

Reservoir Engineers

Completions Engineers

Geophysicists

Log analysts

Technologists

Non-technical professional
Managers

Fundamental principles of sedimentary geology as applied to E&P

Origin and heterogeneity of formations

Conglomerate reservoirs

Sandstone reservoirs

Siltstone reservoirs

Carbonate reservoirs

Review of properties of shale as source rocks and HC reservoirs

Course Duration:

5 days

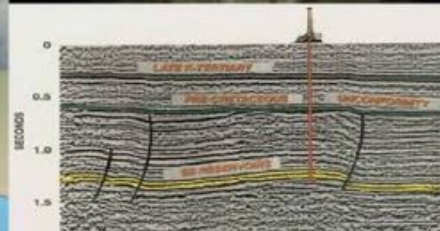
Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox



This course will provide participants with knowledge of the fundamental geologic parameters of hydrocarbon plays that determine reservoir quality, variability, heterogeneity, predictability and economic viability. Knowledge of geology as a pre-requisite to this course is not necessary



Course ID:

GTIS-GEOL-002

Course of Interest forExploration & development
geoscientists

Petrophysicists

Reservoir Engineers

Geostatistical modelers

Research/Development staff

Course Duration:

5 days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

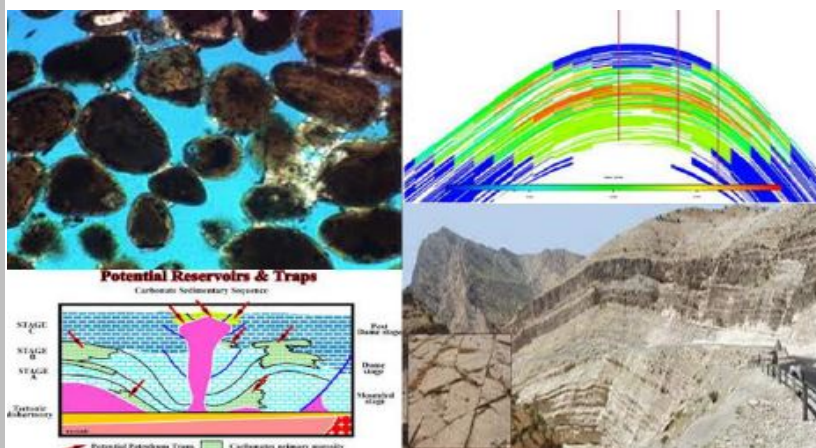
This course provides understanding on how primary depositional facies, diagenesis, and the sequence stratigraphic framework control the development of pores in carbonate rocks, and how the variation in pore architecture influences reservoir porosity and permeability characteristics


Integrated Carbonate Reservoir Characterization**Heterogeneity in carbonate reservoirs****Basics on Carbonate Reservoirs**

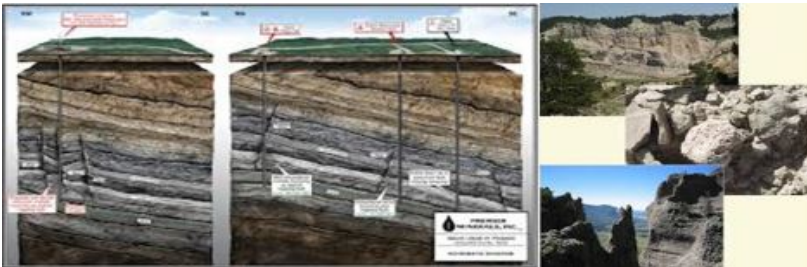

Carbonate deposition, diagenesis, mineralogy, rock textures and pore architecture
Carbonate rock and carbonate pore system classification
Carbonate rock properties and core analysis

Characterization of Carbonate Reservoirs

Well log response, limitations and strengths
Determination of lithology, porosity, and permeability
Fracture identification and distribution
Porosity/depth relationships in limestone and dolomite
Sequence boundaries to development of pore architecture
Variations in carbonate pore architecture & effect on permeability
Relationship of primary depositional facies, sequence stratigraphic framework and diagenetic history to pore architecture and reservoir quality
Controls on reservoir heterogeneity
Value of analogs for development of reservoir models
Value and limitations of 3-D geostatistical models to understand reservoir heterogeneity and architecture



Course ID:	Operations Geology Course	
GTIS-GEOL-003		
Course of Interest for		
Geoscientists	Petroleum geology and systems	
Petroleum Engineers	Operations geology Prospect to well planning Provision of geological services	
Well Engineers	Wellsite geology	
Production Technologists	Geological sampling Sample analysis and well stratigraphy Cutting and core description	
Course Duration:		
x weeks	Structural geology Fractures Faults Borehole geology	
Course includes:		
Training Materials	Drilling Operations	
Training Certicates	Bits, fluids, casing and cement, Drilling problems and well control Directional drilling, geosteering	
End-of-Course Report		
Customized Toolbox	Logging operations Acquisition, tools Quick look interpretation MWD/LWD, geosteering	
At the end of the integrated course participants will be able to contribute effectively to the preparation of planned wells and their concurrent operations during the exploration, appraisal and development phase	Well testing & fluids Reservoir properties Rock and fluid interactions Permeability Data gathering and interpretation	
	Tendering and contracting	
	Reporting: geological data, petrophysical data, pressure data	
	Exercises: cores, cuttings, quick look, pressures, daily drilling report	
		

Course ID:	Production Geology for Other Disciplines	
GTIS-GEOL-004		
Course of Interest for		
	Correlation and stratigraphy	
Production Engineers	Structural interpretation	
Completion Engineers	Seismology	
Reservoir Engineers	Clastic/carbonate deposition	
Financial staff	Reservoir geology	
Professional staff from Disciplines other than Geology	Reservoir characterization and modeling	
Managers involved with reservoir management and development/production	Volumetrics	
	Well planning	
	Reservoir appraisal	
Course Duration:	Field development	
5 days	Uncertainty Analysis	
Course includes:		
Training Materials		
Training Certicates		
End-of-Course Report		
Customized Toolbox		
This Course provides a review of key geological principles and environments of deposition, all keyed to focus on practical impact of geological models and uncertainty on appraisal and development. Without common understanding between geologists and engineers, there can be no real interdisciplinary communication or teamwork in reservoir development and production activities		
		

Course ID:

GTIS-GEOL-005

Basic Petroleum Geology**Course of Interest for**

Petroleum industry personnel in need of basic geological training, including engineering, geophysical, technical support, and administrative personnel

Minerals and rocks

Plate tectonics

Geological times

Weathering and erosion

Deposition

Diagenesis

Reservoirs

Course Duration:

5 days

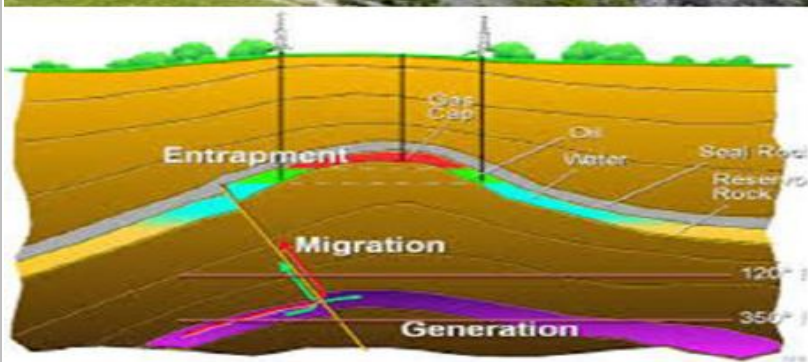
Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

Structural geology and petroleum

Origin, migration, and trapping of petroleum

The course is designed for those with no technical training. Primary objectives are to broaden geological vocabulary, explain selected geological principles and processes, and describe how certain petroleum reservoirs and source rocks are formed





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Contact: manager@gtis.com.ph

Web:
Contact

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HSEQ Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID:	Laboratory Health & Safety	
GTIS-HSEQ-001		
Course of Interest for	Important aspects of chemical hygiene and safety	
Lab managers	Hazard identification and control measures	
Lab supervisors	Codes, standards, and practices for laboratory safety and health	
Scientists & technical assistants	Effective storage, labeling, safe handling, and control of hazardous chemicals	
	Causes of accidents and prevention strategies	
Course Duration:	Health hazards of chemicals	
3 days	Proper selection and use of personal protective equipment	
	Effective training, Required record keeping	
Course includes:	Hazard analysis for lab work	
Training Materials	How to measure success	
Training Certificates	Laboratory vs. Hazard Communication Standard	
End-of-Course Report	Developing/Auditing Chemical Hygiene Plans	
Customized Toolbox	Laboratory Ventilation	
	Safe Handling of Compressed Gases	
	Electrical Safety, Controlling Hazardous Energy	
This course will give an overview of practical and latest regulatory measures for the prevention of accidents, incidents, or exposures that may cause health impairment, injury, fire, or interference with laboratory operations. It includes OSHA training requirements. Registrants are invited to bring case histories, problems descriptions for evaluation and discussion	Handling Lab Emergencies	
	Clients issues discussions	
		
		

Course ID: GTIS-HSEQ-002	HSE Basic Principles
Course of Interest for all employees	Why HSE? "H" for Health Exposure to Pollutants & Chemicals Understanding MSDS Air Quality Noisy Environments
Course Duration: 3 days	"S" for Safety PPE Awareness Life Saving Rules Principles Process Safety Induction Other tools for Safety
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	"E" for Environment Types of Pollution O&G: A polluting industry? Environmental Affairs Spill/Leak Handling Waste Management Waste Water Management Industrial Waste Management Waste Disposal Property Assessments Environmental Agency Inspections Induction to Risk Management
This course is designed to provide basic awareness on basic HSE principles to all employees of O&G industry	 

Course ID:	Chemicals & NORM Handling
GTIS-HSEQ-003	
Course of Interest for	Chemicals Handling
	Definitions of Chemicals & Hazards
Rig Crew	Impacts of Chemicals on Health
Chemists and Lab personnel	Physical State of Hazards
Mud Engineers	Proper handling of Chemicals
Drilling Supervisors and Engineers	Awareness of MSDS
	Incompatible Chemicals
	Case of flammable chemicals
	Acids/Bases
Logistics personnel	General Safety Tips
Course Duration:	Containers Labeling
2 days	Handling Chemical Emergencies
	Improving Safety at work
Course includes:	Hazardous work in Laboratories
Training Materials	NORM Handling
Training Certificates	
End-of-Course Report	Definition of NORM & Origins in O&G
Customized Toolbox	Notion of Radiation
	HSE Aspects of NORM
	NORM Health Hazards
	Contamination
	Control
	Airborne Contamination Control
This course is designed to provide participants with understanding of HSE rules applicable when handling chemicals or NORM	Working with NORM
	Best Practices: Objectives, Training & Policy
	Job Preparation & Worker Protection Plan
	Security & Posting
	Protection of Personnel
	Job Execution
	Job Completion and Monitoring
	Laws & Regulations
	

Course ID:

GTIS-HSEQ-004

HSE Awareness in Drilling Operations**Course of Interest for**

all employees working on rig site

Drilling Engineers

Safety Pillars: Training - Procedures - Maintenance

Audits of Safety Procedures

JSA/JRA: what is this?

Effective Safety Reporting (incident reports, lessons learnt ...)

Course Duration:

3 days

Safety around Drilling

Drilling Equipment

Mud Circulation and treating equipment

Hoisting equipment

Rotating Equipment Derricks and Substructures

Pipe handling equipment

Certifications of Equipment

Safety while running casing and cementing

Mud Logging

Logging and DST

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Decision tool

Hydrogen Sulphide

Blow-Out Prevention

Practices to minimize Impact of Drilling Operations (ISO 14001)

This course is designed to provide awareness of HSE aspects of Operations at the rig site



Course ID:

GTIS-HSEQ-005

Risk Assessment Course**Course of Interest for**all personnel working in HSE
department

Drilling personnel

Production personnel

Risk AssessmentConcepts of Hazards, Risk and Risk Assessment
Method for Risk Evaluation
Integrating Risk Assessment within Risk
Management**HAZOP**Hazard Identification and Analysis
Integrating HAZOP within Risk Management
Planning and Implementing HAZOP Actions**Course Duration:**

4 days

Human Factors and Risk AssessmentIntegrating Human Factors within Risk Management
Cause Tree Analysis
Workgroup**Course includes:**Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox**QHSE Management**System Elements of HSE MS
HSE Audits
Promoting a Positive Safety Culture

The course is designed to provide participants with Risk Assessment objectives and strategy, introduce HAZOP methodology and explain HSEQ Management System Philosophy



Course ID:

GTIS-HSEQ-006

"What You Need Is What You Get" Package**Course of Interest for**

all employees

GTIS and Nadoil understand that needs vary from site to site and from operations to operations.

"What You Need Is What You Get" Package allows you to choose short terms courses and to combine them into one single training package

Course Duration:

as per your needs

Basic Cause Tree Analysis	1 day
Environment Awareness	0.5 day
HazCom introductory course	0.5 day
Incidents Management	1 day
Invisible Energies	0.5 day
ISO 14001 internal auditors course	1 day
Manual handling + Slips, trips and falls	0.5 day
Permit To Work Induction	0.5 day
Personal Protective Equipment	0.5 day
Task Risk Assessment	0.5 day
Understanding MSDS	0.5 day
Waste Segregation	0.5 day

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

And more upon request. Contact us ...

WYNIWYG safety course allows you to choose short terms modules of interest for your organization. It can be used for Safety enhancement programs or Safety day for instance, or to develop specific skills with employees and new comers.



Course ID:

GTIS-HSEQ-007

Basic oil spill recovery awareness

Course of Interest for

XXXXXXX

Course Duration:

x days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

Course
Under
Preparation



Course ID:

GTIS-HSEQ-008

Lifting & Hoisting Awareness

Course of Interest for

XXXXXXXXXX

XXXXXXXXXX

XXXXXXXXXX

Course
Under
Preparation

Course Duration:

x weeks

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox



Course ID:

GTIS-HSEQ-009

Process Safety Basics

Course of Interest for

XXXXXXXXXX

XXXXXXXXXX

XXXXXXXXXX

Course Duration:

x weeks

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Course
Under
Preparation





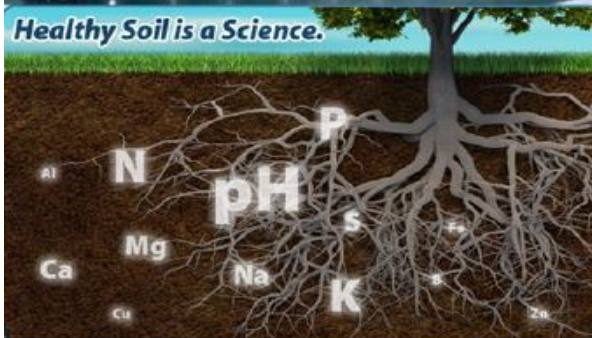
Your local focal point

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Contact: manager@gtis.com.ph


Web:
Contact

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Hydrology & Soils Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID:	Surface and Groundwater Hydrology
GTIS-HYDR-001	
Course of Interest for	Hydrological cycle and influence of men
Water and Sanitation Engineers	Basics of hydraulics SI Units, fluids, basic mechanics Pressure & measurement, submerged surfaces
Government employees	
Construction Engineers	Fluids in motion Types of flow, Continuity Energy and momentum equations and applications
Civil Engineers	Behaviour of real fluid
Construction Managers	Precipitation Measurement of precipitation amount and intensity Spatial analysis Interception and depression storage Evapotranspiration, Penman approach, actual evapotranspiration
Attorneys	
Course Duration:	Runoff
5 days	Overland flow, interflow, base flow Runoff measurement (velocity area methods)
Course includes:	Structures hydraulic principles of weirs and flumes Stage measurement, Rating curves and other methods
Training Materials	
Training Certificates	Groundwater occurrence Porosity, Permeability Water holding formations Aquifers, aquicludes, aquifer types, aquifer boundaries Springs and streams in relation to groundwater
End-of-Course Report	
Customized Toolbox	Aquifer properties: Transmissivity, Storage coefficient, significance and magnitudes
This course provides a conceptual and quantitative understanding of hydrology and the basic principles of hydraulics as a basis for later applied studies of water quality, water engineering, and water management	Groundwater movement Flow lines and equipotentials Natural flow, recharge, flow to wells, Drawdown, cone of influence, radius of influence, interference
	Pumping tests and analysis
	Groundwater recharge: processes, methods of estimation
	

Course ID:

GTIS-HYDR-002

Soil and Water Chemistry**Course of Interest for**

Water and boring engineers

Government employees

Construction Engineers

Civil Engineers

Environment Engineers

Soil Chemistry

Soil Chemical Processes

Soil-Chemical Testing

Soil Chemistry – Applications in Agriculture

Soil Chemistry – Applications in Environmental Management

Course Duration:

8 days

Water Chemistry -- Introduction

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Water – Chemistry of Water Sources and Drinking Water

Water chemistry –applications in agriculture

Water chemistry – applications in the environment management

The course describes the dominant geochemical and water cycles on earth. Attendees will demonstrate understanding of basic chemistry including atoms and their components, elements, compounds and chemical reactions

Temperature effects of water and general health



Course ID:

GTIS-HYDR-003

Advanced Hydric Soils For Soil Scientists

Course of Interest for

Soil Scientists

Wetland Scientists

Agricultural Engineers

Construction Engineers

Environmental Engineers

Hydric soils definition, criteria, indicators, and technical standard

Pedogenic processes

Redoximorphic features

Regional hydrology

Installation of monitoring equipment

Course Duration:

x weeks

Interpreting data

Course includes:

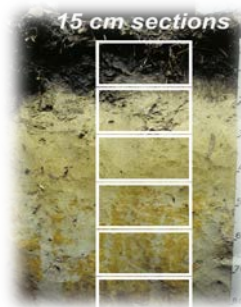
Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course intends to present technical information to assist soil/wetland scientists in the identification and delineation of hydric soils





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Contact manager@gtis.com.ph



Your local focal point

Web:

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Procurement & Logistics Courses

Course ID:

GTIS-LOCS-001

Logistics - Equipment Support**Course of Interest for**

employees of Logistics Providers

Warehouse personnel and manager

On-site Logistics Manager

Coordinate and control equipment transit operations

Optimize communication for improved customs clearance

Regulate activities for In/Out flows of equipment

Fill and validate transport data sheets

Follow-up incident report and non-conformities

*Reporting Procedures**Color coding**3rd party certifications**DROPS Inspection***Course Duration:**

5 days

Optimize storage areas in warehouse and onsite

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Coordinate stock inventory

This course is designed to provide basic knowledge of Equipment Support Tools and to optimize company's tools and procedures



Course ID:

GTIS-LOCS-002

Logistics - Human Support**Course of Interest for**

employees of Logistics Providers

Warehouse personnel and manager

On-site Logistics Manager

Coordinate and control employees transit operations

Planning Air transfer operations

Planning Marine transfer operations

Planning Land transfer operations

Course Duration:

3 days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course is designed to provide basic knowledge of Human Support Tools and to optimize company's tools and procedures



Course ID:

GTIS-LOCS-003

Safe Logistics**Course of Interest for**

employees of Logistics Providers

Warehouse personnel and manager

On-site Logistics Manager

Handling, loading/unloading equipment operations

Handling suspended loads (metal rings, slings, baskets, ...)

Chemicals & NORM Handling

Environmental Management

Emergency plans: mitigation, evacuation and rescue

Risk Analysis for Logistics

Course Duration:

3 days

Course includes:

Training Materials


Training Certificates

End-of-Course Report

Customized Toolbox

This course intends to provide knowledge of HSE Best Practices related to Logistics operations in order to reduce exposure



Course ID: GTIS-LOCS-004	Organizational Roles for Logistics
Course of Interest for employees of Logistics Providers Warehouse personnel and manager On-site Logistics Manager	Planning of team's activities Management of equipment in storage and shipment areas Optimize activities planning Monitor performance of Logistics Department (KPI) Supervise Logistics Team Schedule maintenance of storage area, fleet of equipment and working tools <i>Storage area</i> <i>Fleet of equipment</i> <i>Working tools</i>
Course Duration: 3 days	
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	
This course intends to provide advanced techniques in organizing material and human flows	
	

Course ID:

GTIS-LOCS-005

Warehouse Management**Course of Interest for**

employees of Logistics Providers

Warehouse personnel and manager

On-site Logistics Manager

Warehouse Organization

Requisitions and Replenishment of Materials

Receipt and Inspection of Materials Stocktaking

Storage and Handling Practices of Materials

Computerization of Warehouse Activities (Database creation)

Planning and Optimization of Warehouse Location, Layout and Facilities

Course Duration:

5 days

Inventory Control (Classification and Codification)

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course intends to provide good knowledge of efficient management of goods and movement within a warehouse environment, and to optimize the use of all available resources including personnel, stock inventory, space, equipment and time



Course ID:

GTIS-LOCS-006

Contracts & Tenders Fundamentals

Course of Interest for

XXXXXXX

Course Duration:

x days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

Course
Under
Preparation



Course ID:

GTIS-LOCS-007

Effective Materials Management

Course of Interest for

XXXXXXX

Course Duration:

x days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

Course Under Preparation





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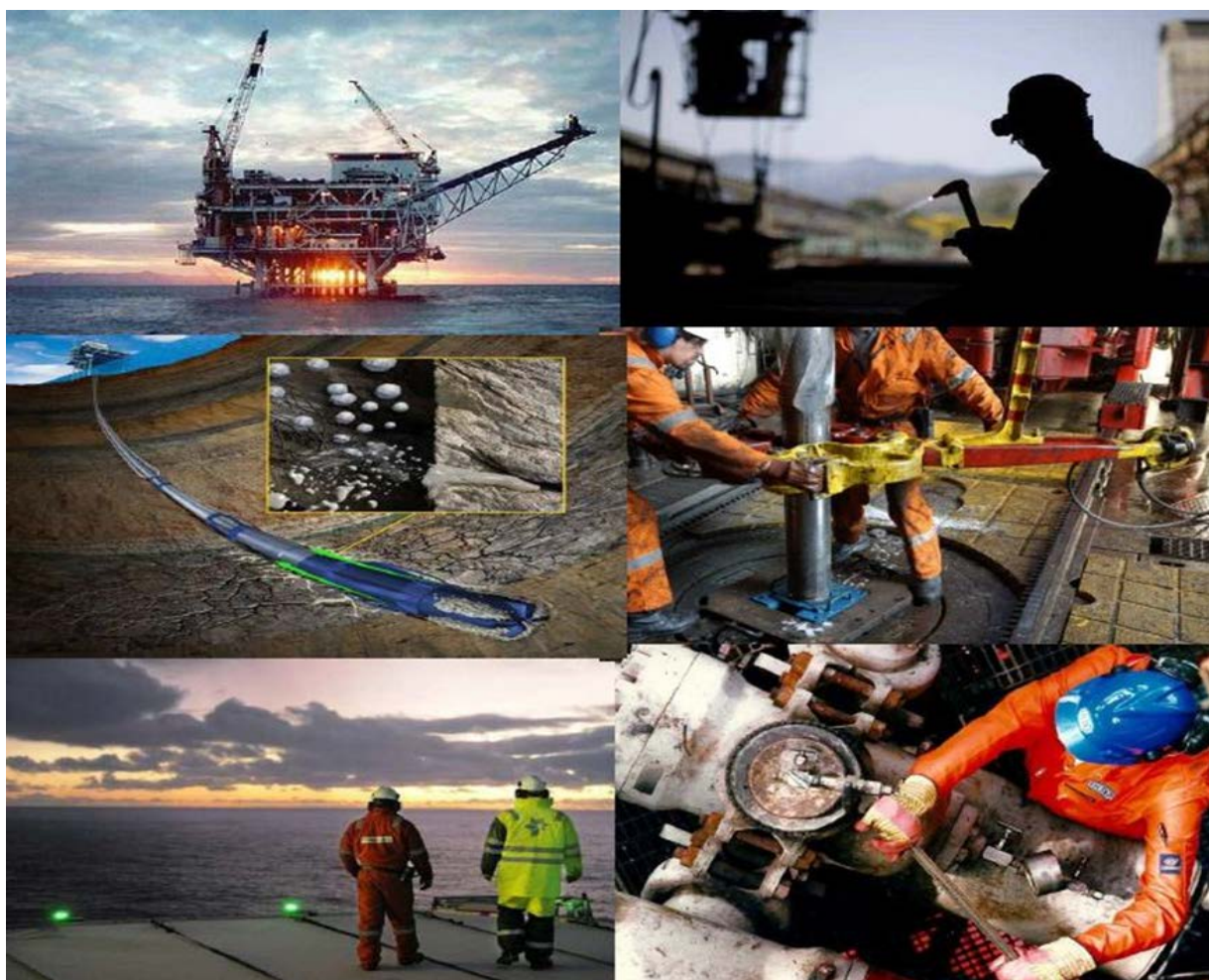


Your local focal point


Web:
Contact

Training Catalog - Rev. 2020

Mud Engineering Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID:	Drilling Fluids for Drilling Operations	
GTIS-MUDS-001		
Course of Interest for	Fluid Mechanics	
Drilling Engineers	Rheology	
	Flow regimes	
Drilling Supervisors	Newtonian and non-Newtonian fluids	
	Newtonian Model	
Mud Engineers	Bingham plastic Model	
	Power Law Model	
Mud loggers	Herschel-Buckley Model	
	Pressure losses	
Rig Crew	Hole Cleaning	
	Hole Cleaning definition	
	Cuttings bed formation	
Course Duration:	Wellbore inclination	
2 days	Impact of Mud Parameters	
	Pipe rotation	
	Pipe eccentricity	
	Vertical Hole Cleaning	
Course includes:	Horizontal wellbore cleaning: cuttings bed concerns	
Training Materials	Hole Cleaning Strategy	
Training Certificates	Let's go deeper	
End-of-Course Report	Barite sag prevention	
Customized Toolbox	Wellbore stability for better hole cleaning	
	Differential sticking	
	Lost Circulation	
	Definition & Type of Losses	
	Detection & Monitoring	
	Strategies	
	LCM	
	Field Practices	
This course is designed to provide drilling fluids knowledge for those working on operations, focusing on 3 major concepts: Fluids Hydraulics, Hole Cleaning and Lost Circulation	Treatments for WBM	
	Treatments for OBM	
	Barite Plugs	
		

Course ID:

GTIS-MUDS-002

Drilling Fluids for Directional Drillers**Course of Interest for**

Directional Drillers

Generalities on Drilling Fluids

Definitions and Functions

Mud Circulation in hole

Properties vs. Functions

Course Duration:

2 days

Optional: 3 days lab course if
laboratory is available**Composition of Water Based Muds****Composition of Oil Based Muds****Drilling Fluids Basic Testing for Directional Drillers****Understanding Daily Mud Report****Drilling Fluids Concerns**

Basic Hydraulics Calculations

Hole Cleaning

Stuck Pipe

Lubrication Processes

Equipment Failure vs Drilling Fluids (wear, corrosion)

Extended Reach Wells

Course includes:

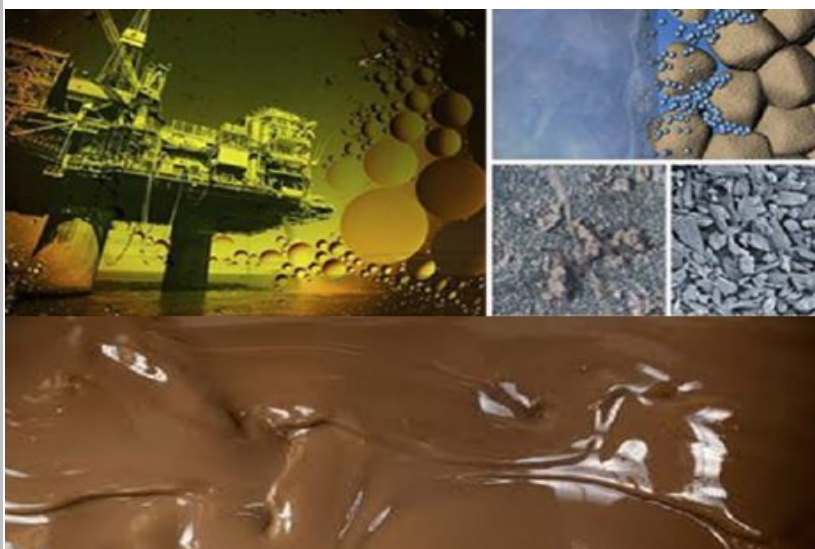
Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course is dedicated to
Directional Drillers and provides
an overview of what every
single DD shall know about
drilling fluids to perform
effective operations



Course ID:

GTIS-MUDS-003

Drilling Fluids for Deep Water Operations**Course of Interest for**

Drilling Engineers

Drilling Supervisors

Mud Engineers

Mud loggers

Rig Crew

Introduction to Riserless Drilling

Riserless Drilling Fluids

Drilling 26" & 20" Casing sections

Gas Hydrates

Shallow water Flows

Synthetic-Based Fluids

Effect of Cold Water on Synthetic Based Fluids

Ballooning / Breathing Phenomenon

Lost Circulation in Deepwater Drilling

Bore Hole Stability issues

Course Duration:

Hydraulics

2 days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course is providing information on drilling fluids problems expected while drilling deep water wells along with available technical solutions to mitigate them.



Course ID:

GTIS-MUDS-004

Introduction to Mud Engineering Operations for Jr. Drilling Supervisors and Non-Technical Personnel**Course of Interest for**

Jr. Drilling Supervisors

Jr. Ops Engineers

Finance staff

Technical Assistants

Planning Mud for the well

Rheology and Flow

Mud Composition

Basics on Hole Cleaning

Basics on Lost Circulation

Course Duration:

1 day

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox



This short course provides a quick overview of mud engineering operations to newcomers, non-technical and finance staff. Objective is to deliver comprehensive information to enhance communication between departments and bring additional value to mud contract management



Course ID:

GTIS-MUDS-005

Introduction to Particle Size Distribution for Drilling Fluids**Course of Interest for**

Mud Engineers

Introduction

- What is a particle?
- Why measure particle properties?
- Which particle properties are important to measure?

Course Duration:

1 day, plus one additional day if
lab practice is required

Particle Properties

- Particle size
- Particle size distributions
- Particle shape

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

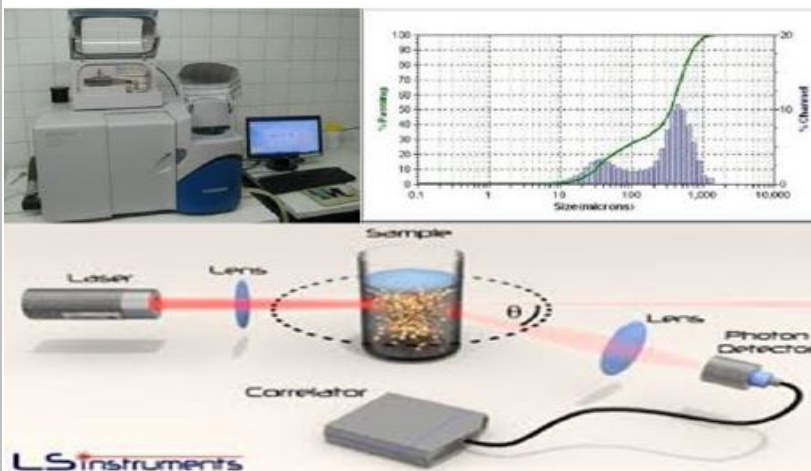
Particle Characterization Techniques


- Which particle characterization techniques?
- Sampling
- Sample dispersion
- Techniques: Laser Diffraction Particle Sizing
- Techniques : Dynamic Light Scattering Principles
- Techniques: Automated Imaging
- Techniques: Electrophoretic Light Scattering (ELS)
- Particle related properties: Rheology

Selecting a particle size analyzer

- When to choose laser diffraction
- When to choose dynamic light scattering
- When to choose image analysis

Particle Size Distribution is an aspect of Drilling Fluids too often neglected but which can have critical impact on miscellaneous operations. This course intends to provide knowledge of the tools available to control and optimize PSD



Course ID:	In-House Basic Integrated Mud School	
GTIS-MUDS-006		
Course of Interest for	Module 0: Introduction to Well Construction	
Fresh Graduate Mud Engineering Trainees	Module 1: Basics in Chemistry	
Jr. Mud Engineers	Module 2: Mud Chemicals Drilling Fluids Chemicals API Standards and Drilling Fluids Basics	
Course Duration:	Module 3: Shales reactivity & associated problems	
4-7 weeks, depending on classroom/lab ratio expected and on optional modules selected. Lab shall be available for Module 11 purpose.	Module 4A: Fluids Systems WBM, OBM Drill-In Fluids & Completion Fluids Contaminants	
	Module 4B: HPHT Technologies (optional)	
Course includes:	Module 5: Solid Control	
Training Materials	Module 6A: Loss Circulation	
Training Certificates	Module 6B: Stuck Pipe	
End-of-Course Report	Module 7: Mud Calculations	
Customized Toolbox	Module 8: Waste Management	
	Module 9: Hydraulics (includes effective hand calculations)	
	Module 10: Hole Cleaning	
	Module 11: Laboratory Module (practical)	
This course is a fully integrated basic mud school dedicated to Jr. Mud Engineers and Fresh Graduates aiming to become Mud Engineers. It covers all aspects of engineering for the participants to effectively perform mud checks, to determine appropriate solutions to mud contaminations, and to support rig operations with best-in-class practices. It also covers comprehensive overview of Solid Control and Waste Management.	Note: In Option, Basic Mud School can be delivered in OJT mode (On the Job Training) In such case, schedule is as follows till completion of course; - 2 weeks in classroom - 2 weeks off - 4 weeks on site (multiple sites for learning assessment) Total course duration: 4.5 months	
		

Course ID:

GTIS-MUDS-007

In-House Advanced Mud School**Course of Interest for**

Sr. Mud Engineers

Jr. Mud Engineers having
completed Basic Program

Fluids Specialist

Module 1: Introduction to Well Control

Module 2: Deep Water Operations

Module 3: HPHT & Challenging Technologies

Module 4: Advanced Formate Brines

Module 5: Advanced Chemistry for Mud Engineers

Course Duration:

2-3 weeks, adjustable

Module 6: Mud Removal

Module 7: Induction to Cementing Operations

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course is designed to delivered advanced notions of mud engineering. It is addressed to Sr. Mud Engineers having at least 6-8 years experience and good technical background. It is also available for Jr. Mud Engineers who have successfully completed Basic Mud School Program.



Course ID:

GTIS-MUDS-008

**Basic Fluids Engineering
for Drilling Supervisors****Course of Interest for**

Senior Drilling Supervisors

Junior Drilling Supervisors with
more than 1 year experience on
site**Course Duration:**

2 weeks

Course includes:Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

Module 1: Basics in Chemistry

Module 2: Drilling Fluids Systems

Water Based Mud

Oil Based Mud

Completion Fluids

Module 3: Clays Chemistry

Module 4: Understanding Mud Checks and Mud Reports

Module 5: Contamination

Module 6: Drilling Problems vs. mud

Impact of mud properties on Hydraulics

Lost Circulation

Stuck Pipe

Module 7: Solid Control

Module 8: Cementing

Cement Slurries

Spacers

Displacement

This course intends to provide
technical background on Fluids
systems, including mud and
cement, to Drilling Supervisors
to enhance operations and
communication with specialists
and contractors



Course ID:

GTIS-MUDS-009

Stuck Pipe Course**Course of Interest for**

Rig Personnel

Drilling Team members

Mud Engineers

Mud Loggers

Introduction

Differential Sticking

Mechanical Sticking

Warning signs

Prevention

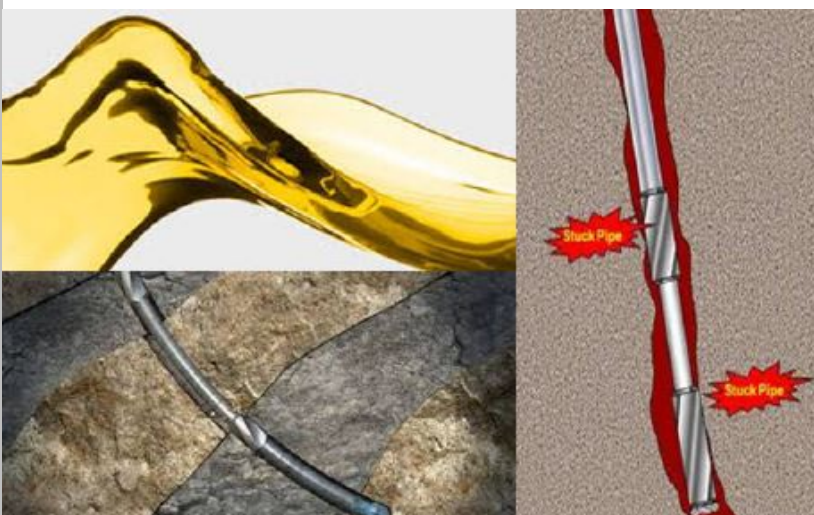
Lubrication

Course Duration:

2 days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox



This course is designed to provide comprehensive knowledge on understanding and preventing the underlying causes of Stuck Pipe and Wellbore Instability, as well as describing fluids solutions to mitigate them



Course ID:

GTIS-MUDS-010

Lost Circulation Course**Course of Interest for**

Rig Personnel

Drilling Team members

Mud Engineers

Mud Loggers

Definition & Type of Losses

Natural

Induced

Detection & Monitoring

Prevention

Loss severity classification

Seepage

Partial

Total

Course Duration:

1 day

Treatment

LCM

Field Practices

Treatments for WBM

Treatments for OBM

Barite Plugs

Engineered Solutions

Course includes:

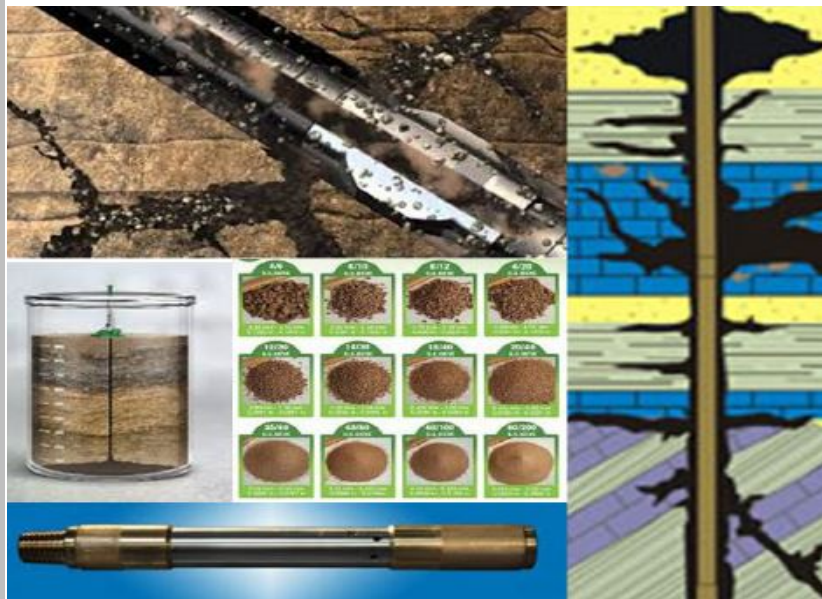
Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course is providing information on Lost Circulation management on the site and addresses multiple mitigation options



Course ID:

GTIS-MUDS-011

Course of Interest for

Chemists

Mud Engineers

Course Duration:

3 days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This unique course is designed to give in-depth understanding of what enzymes are, how they actually work and what can be their applications in the O&G businesses. Based on the principle that misuse comes from misunderstanding, it covers all aspects of enzymatic activity and helps participants to properly design fluids and placement to ensure high performance of enzyme solutions. All you need to know is here

Enzymes in the Oil Industry

What is an Enzyme?

Enzyme Structure

Reaction and Specificity

Enzymes, Cofactors & Coenzymes

Enzyme-Substrate complex

Kinetics

Enzyme catalytic mechanisms

Inhibition of Enzymes

Stability

Oil & Gas Applications

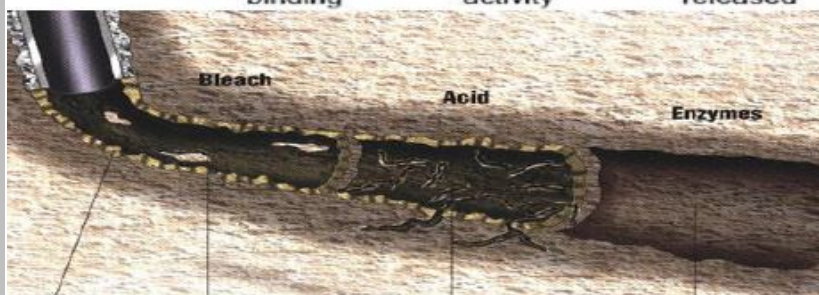
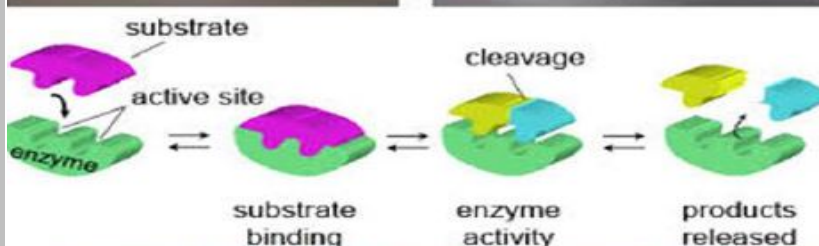
Enzymes as breakers

Comparison with other types of Breakers

Displacement and Procedure

Oil Sludge Treatments opportunities

Environmental Impact





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Contact: manager@gtis.com.ph

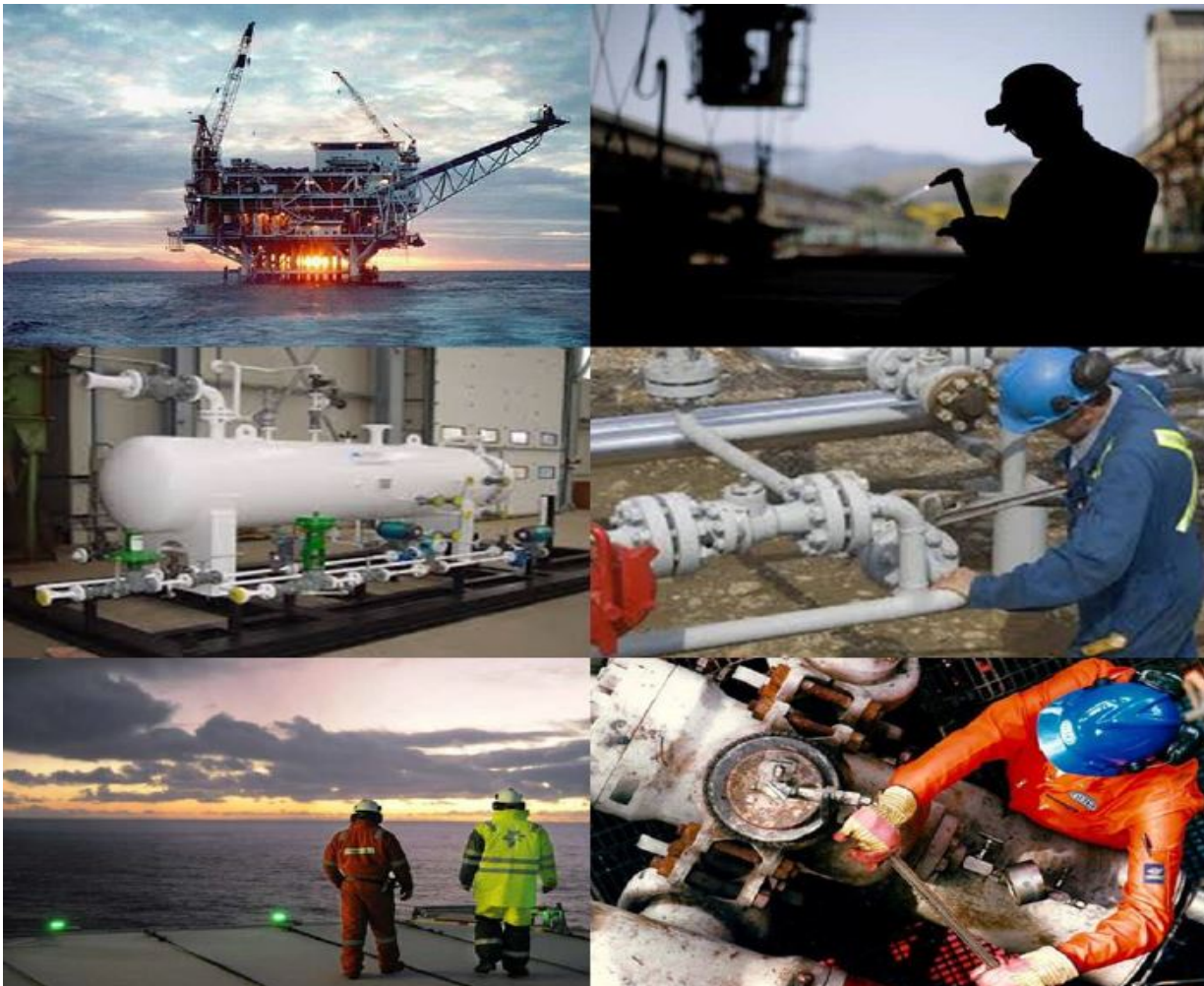


Your local focal point


Web:
Contact

Training Catalog - Rev. 2020

Production Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID:	Production Technology and Chemistry
GTIS-PROD-001	
Course of Interest for	Flow Assurance Fundamentals and Production Chemistry
Exploration Engineers	Introduction to Production Chemistry and Flow Assurance
Production Engineers	Fluid Sampling
Production Technicians	Well Testing
Equipment Operators	Downhole Sampling and Testing techniques
Course Duration:	PVT analysis
5 days	Design for Hydrates
Course includes:	Prediction of Hydrate Formation
Training Materials	Thermal Management
Training Certificates	Chemical and Mechanical Control of Hydrates
End-of-Course Report	Thermodynamic Inhibition
Customized Toolbox	Kinetic Inhibitors and Anti Agglomerates
This course explores the properties of produced fluid and its evolution from reservoir to production facilities. The impact and methods of wax, hydrate, asphaltenes control will be examined. Basic downstream processing plant operation, separation and chemical treatment will be introduced	Wax and Rheology
	Thermal Management
	Chemical and Mechanical Control of Wax Deposition
	Non-Newtonian flow
	Viscous Oils and Gel Transport
	Scale Prediction and Control
	Scale Prediction
	Mechanical and Chemical/Process Treatment and Control of Scale
	Asphaltenes and Napthanates
	Prediction and Control of Asphaltine and Napthanates
	Chemical Injection Systems
	Chemical Storage
	Metering and Distribution Systems
	Umbilical Design.
	Downstream Processing and Design of Separation Systems
	Basic Downstream Processing Plant Operations
	Separation and Chemical Treatment
	

Course ID:

GTIS-PROD-002

Process Plant Operations**Course of Interest for**

Production Engineers

Chemical Engineers

Process Engineers

Environment Engineers

Environment Technicians

Overview of Process Plant Operations

Stirred Tanks

Evaporators

Crystallisers

Dryers

Thickeners

Filters

Course Duration:

5 days

Centrifugal Separators

Distillation

Workshop – Waste Water Processing Plant

Course includes:

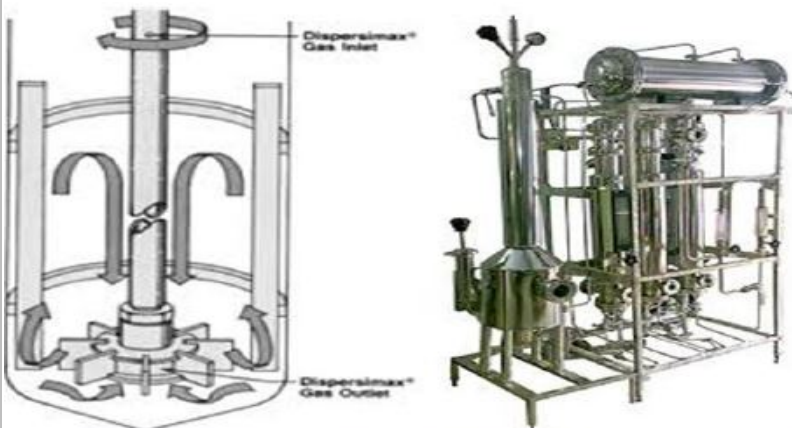
Training Materials



Training Certificates



End-of-Course Report

Customized Toolbox

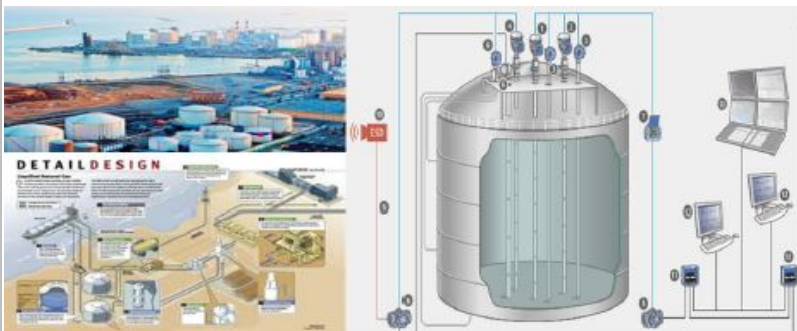

This course aims to familiarise delegates with principles, equipment design and operating characteristics of typical unit operations in process plants within chemical, petrochemical, water, oil and gas industries.




Course ID: GTIS-PROD-003	Subsea Oil and Gas Exploitation
Course of Interest for Subsea Production Engineers Other personnel related	Reservoir engineering Introduction Reservoir rocks Properties Reservoir fluids Rock-fluid interaction Phase behaviour of reservoir fluids Classification of reservoir fluids
Course Duration: 5 days	Drilling History Drilling systems Tubing programs Connectors Wellhead housings Running tools Templates and tiebacks Completion overview
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	Subsea production Fundamental requirements Hardware Trees Manifolds Flowlines Analysis of building blocks Subsea developments
This course will provide a knowledge and understanding of the equipment and procedures employed in the exploration and production of offshore oil and gas	Case studies
	New technologies
	
	

Course ID: GTIS-PROD-004	O&G Basic Production Chemistry for Engineers & Operators
Course of Interest for Production engineers Petroleum engineers Chemists Field managers Production supervisors Operations supervisors Operations technicians Environment personnel Technical support personnel	What is Production Chemistry? Chemistry of Petroleum Oilfield Chemical Phenomena Scaling Emulsions Foaming Wax Asphaltenes Hydrates Corrosion Microbial Activity Reservoir Souring The Affected Systems Oilfield Production Gas Processing Produced Water Water Injection Waste Water Treatment Oil & Gas Transmission Oil Storage Utilities
Course Duration: 3 days	Sampling & Analysis Chemical Regulation & Control
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	
<p>This course will allow attendees to acquire holistic appreciation of Production Chemistry in O&G production, and understand how production can be threatened by chemical phenomena</p> <p>It helps understanding chemical treatments and recognise risks to asset integrity from corrosion mechanisms</p>	 

Course ID: GTIS-PROD-005	Plant Processing of Natural Gas
Course of Interest for Field and maintenance Foremen Field and maintenance Superintendents Field technicians and operators Field engineers HSE Engineers	Characteristics of natural gas Physical properties of natural gas Petroleum reservoirs Gas behavior Natural gas production Gas conditioning Dehydration of natural gas Pumps Prime movers and compressors Natural gas measurement Instruments and controls Operating considerations Safety Allocation Maintenance
Course Duration: 4 days	
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	
<p>This course covers the general operation and troubleshooting of systems for natural gas handling and treatment from the wellhead to the gas processing plant to achieve desired product specifications. Emphasis is placed on the field handling and field processing equipment and their safe operation.</p>	
	

Course ID:	Basics of Liquefied Natural Gas	
GTIS-PROD-006		
Course of Interest for	Overview of the LNG industry	
Managers new to the LNG industry	Baseload liquefaction plant	
Operating supervisors	Receiving terminal	
Operations engineers	LNG shipping industry	
Project managers	Major equipment in LNG industry	
Course Duration:	Cryogenic exchangers	
4 days	Compressors and drivers	
Course includes:	LNG pumps and expanders	
Training Materials	Loading arms	
Training Certicates	LNG tanks	
End-of-Course Report	Supporting functional units in LNG plants	
Customized Toolbox	Gas pretreatment	
	NGL recovery	
	Nitrogen rejection unit	
	Helium recovery	
	Safety, security, and environmental issues	
	Offshore LNG	
	Special topics	
	Non-conventional LNG	
	Risk management	
This course provides basic instruction about all facets of LNG industry. It focuses on presenting a thorough understanding of LNG liquefaction and regasification facility operations from the process side. It also addresses the 3 major building links of LNG chain: liquefaction plant, transport ships and receiving terminal		
		

Course ID:	Oilfield Chemicals Integrated Course (Advanced)	
GTIS-PROD-007		
Course of Interest for	Corrosion	
Production Engineers	Corrosive agents	
Facilities Engineers	Corrosion inhibitor selection and application	
	Predicating and monitoring corrosion rates	
	Basics of oil field emulsions	
Chemists and technicians	Demulsifier selection and field application	
Government employees	Foams	
HSE Engineers	Defoamers	
	Foam basics	
	Field application of foams	
	How defoamers work	
Course Duration:	Scales	
5 days	Compounds that cause scaling	
	Predication of scaling tendency	
	Scale inhibitors	
Course includes:	Solvents to dissolve scales	
Training Materials	Gas Hydrates	
Training Certicates	Requirements for gas hydrates to form	
End-of-Course Report	Types of compounds used to control hydrate formation	
Customized Toolbox	Wax Control	
	Causes of paraffin (wax) problems	
	Paraffin treatment chemicals	
	Asphaltene stability tests	
	Asphaltene treatment chemicals	
This course covers the selection and use of chemicals used in oil and gas production. It includes methods to determine the need for chemical treating, how to select the proper chemicals, and how testing for chemical compatibility with the formation and other chemicals is performed. Requirements for environmentally friendly products and products for deep water production are discussed.	H2S Control	
	Chemicals used as H2S scavengers	
	Application of scavengers	
	Environmental Impact	
	Oil carryover in water	
	Removal of oil and oily solids	
	Tests required for chemicals used in deepwater	
	Green chemicals (Environmentally friendly chemicals)	
	International guidelines	
		

Course ID: GTIS-PROD-008	Crude Oil and Water Treatment
Course of Interest for Surface facilities operation engineers Production chemistry engineers Flow assurance engineers Production engineers	Oilfield Processing, Production Fluid Separation, and Emulsion Typical oilfield processing Production fluid separation Potential operation problems Emulsion Oil Treatment Basics, Treaters, and Dehydration Performance Oil treatment basics Oil dehydration technologies and processes Dehydration performance factors
Course Duration: 5 days	Crude Oil Desalting Main problems of salty crude oil Desalters: equipment and technology Operation and design considerations Life cycle costing for selection considerations
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	Water Treatment Properties of produced water Environmental regulations Water specifications Factors affecting the water treatment Process and equipment design Chemical treatment Chemicals used in water treatment Study of water treatment real cases
<p>This course explores theories and technologies involved in crude oil and water treatment, starting with emulsion theory formation, stabilization and mechanism, through technology to destabilize and separate water from oil. It also discusses desalting technologies and processes needed to achieve required oil specifications</p>	<div data-bbox="560 1473 991 1756" data-label="Image"> </div> <div data-bbox="999 1473 1374 1756" data-label="Image"> </div> <div data-bbox="603 1928 802 2051" data-label="Image"> </div>

Course ID: GTIS-PROD-009	<div>Oil Enhancement Processes</div> <div>Chemical Flooding</div>
Course of Interest for Petroleum Engineers Reservoir Engineers Production Engineers Geologists and geophysicists	Introduction and EOR definitions Types of EOR methods and enhancement approaches Screening criteria for EOR techniques vs. chemical ones Phase behavior and rock-fluid properties for chemical methods Displacement, vertical, and volumetric efficiencies
Course Duration: 3 days	Polymer method Polymer types, mobility, properties Calculating polymer injectivity and mechanical degradation Fractional flow of polymer Designing the flood Case studies of chemical EOR
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	Surfactant-polymer flooding key aspects, surfactant-brine-oil phase behavior, and performance Micellar-polymer (MP) flooding MP process, high capillary number, designing, non-ideal effects how to make a simplified recovery prediction Alkaline-surfactant-polymer (ASP) process Advantages and limitations Other chemical EOR methods Foam flooding, microemulsions, others Limitations and proposed solutions for chemical EOR methods
This course is designed to provide key aspects of chemical methods and process limitations. It covers all chemical methods of polymer, surfactant/polymer, alkaline/surfactant/polymer (ASP) methods plus microemulsion and other chemical techniques. In addition, it presents technical backgrounds, current status, and future of chemical EOR techniques	Analysis of results of some field cases Future of chemical EOR methods  

Course ID:

GTIS-PROD-010

An Overview of Heavy Oil Recovery

Course of Interest for

Reservoir Engineers

Production Engineers

Geologists

Production Technicians

Production Managers

Basic concepts of thermal recovery

Mechanics of recovery and operations considerations

Analytical heating models

Field experiences

Commonly applied technologies in heavy oil recovery

Course Duration:

1 day

Course includes:

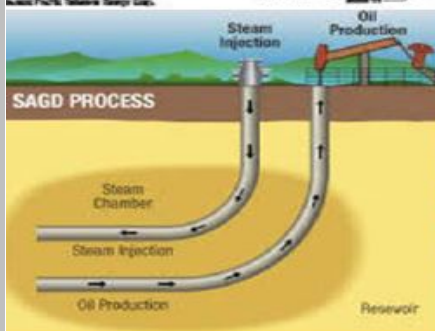
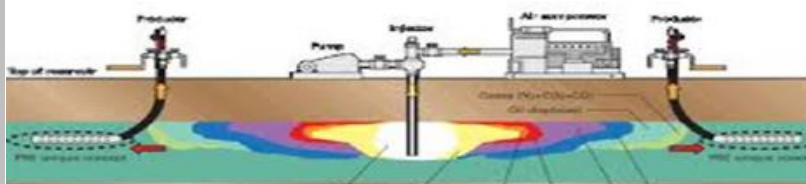
Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox


This overview course is designed to provide a background on a variety of heavy oil recovery techniques with emphasis on steam injection recovery



$$\text{API gravity} = \frac{141.5}{\rho} - 131.5$$



Course ID: GTIS-PROD-011	Practical Aspects of Thermal EOR Advanced Course
Course of Interest for Petroleum Engineers Reservoir Engineers, Production Engineers, Facilities engineers Facilities Managers Government officials	Thermal effects on rock and fluid properties Types of thermal oil recovery (TOR) Thermal EOR (TEOR) screening and economics Steam TEOR – Analytical methods Data input into thermal simulators Reservoir simulation of steam injection thermal projects Steam additives In-situ combustion TEOR
Course Duration: 2 days	Reservoir Simulation of In-Situ combustion In-Situ oil upgrading Thermal well design and thermal well drilling
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	Surface facilities for thermal EOR projects Thermal EOR project implementation Thermal EOR operations/HSE Thermal EOR project management and surveillance
This course discusses practical aspects of whole variety of thermal EOR processes, including utilization of reservoir simulation, and economics of thermal EOR methods	 

Course ID: GTIS-PROD-012	On the Job Training "Production Operators"
Course of Interest for New-comers aimed to become Production Operators	On-site training On-the-job training is mainly carried out in shifts at the plant. Instructors help trainees acquire knowledge and know-how needed to perform at expected level Program is customized upon Client's requirements
Course Duration: On site continuous training Duration: 2 years (12 rotations) per batch and per Instructor	Mentoring Instructors play the role of mentors in the training process by: Supervising and guiding trainees they are in charge of Leading coordination between training and on-site phases Validating specific OJT knowledge and skills acquired Assessing trainee's ability to evolve in Client's organization
Course includes: Training Materials Training Certicates End-of-Course Report Customized Toolbox	Typical Rotations Schedule: 4x4 or 5x5 After each course Module, a Site Training Period is planned
This long course is designed to provide both theoretical and practical knowledge to new-comers aimed to become production operators. Each theoretical module is followed by an on-site training where participants help existing team, under the supervision of the instructor who is coordination planning with Production Manager. Acquired knowledge is continuously assessed during program, and participants are evaluated at the end of course thorough tests and project presentation in front of a jury	Modules available Module 1 P&ID; Air Instrument; Flares; Drains; Daily Operations; Gas-Lift wells; Rod-suck wells; Separators; Desalting; Terminal Operations; Counting; Pigging Module 2 Pipes & valves; Exchangers; Introduction to DCS; Produced Water; Injection Water; Dehydration Module 3 Sweetening; Liquefaction; Safety valves; Oil & Grease; x-overs and couplings Module 4 Pumps; ESD/PSD; Inert Gas; Fuel Gas; Chemical Treatments Module 5 Distillation & Columns; Process control; Laboratory; Compressors; Turbines; Gasoil and Jet Fuel Module 6 Engines; Cathodic Protection; Alternators; Batteries; Hydraulics Module 7 Commissioning; Fire Network; Heaters; Steam; Boilers; Operational Safety
	



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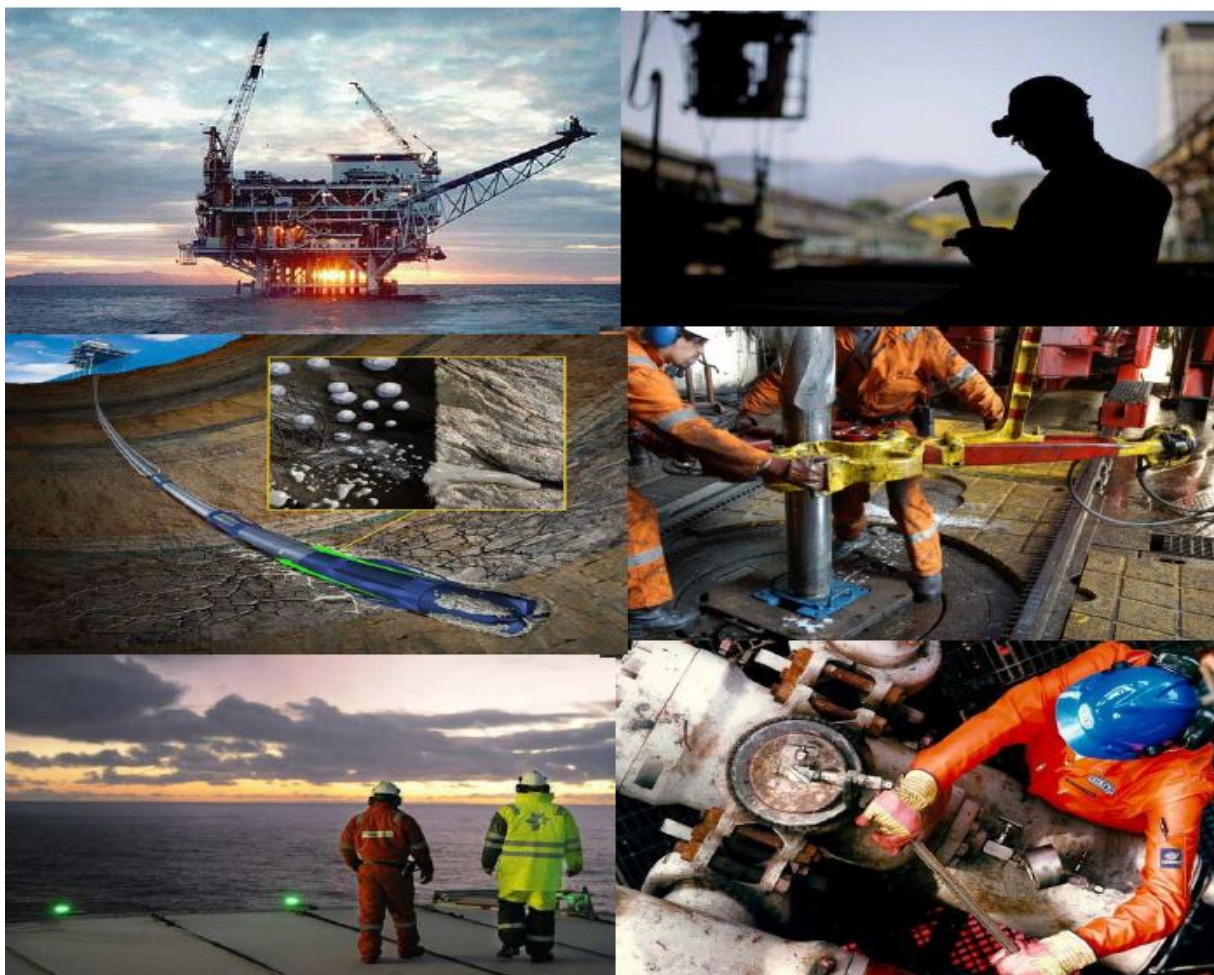


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Project Management Courses




World-Class Out-Sourced Training Solutions for Your Operations

Course ID:	Project Management Course
GTIS-PROJ-001	
Course of Interest for	What are "projects"?
Projects Engineers	Why project management?
Project Managers	The project life cycle
	Influences on a project
	Key stakeholders
	Project management process groups
	Project manager responsibilities
Course Duration:	Project Initiation
5 days	Understanding the role of senior management
	Needs assessment & Project selection
	Benefit/cost ratio, Present value and net present value
Course includes:	Building SMART objectives
Training Materials	Specific
Training Certificates	Measurable
End-of-Course Report	Agreed to
Customized Toolbox	Realistic
	Time-constrained
	Developing requirements
	Charters & Requirements Documents
This course provides the foundation, techniques and tools to manage each stage of the project life cycle, work within organizational and cost constraints, set goals tied directly to stakeholder needs, get the most from project management team, and utilize state-of-the-art project management tools to get the work done on time and within budget	Project Planning
	Scope planning
	The work breakdown structure
	Estimating
	Schedule Planning
	Network Diagrams – CPM
	Speeding up the Schedule
	Project Management Planning Software
	Cost Planning
	Responsibility Matrix
	Resource Loading and Leveling
	Risk Planning
	Procurement Planning
	Communication and quality planning
	Project Implementation
	Baselines
	Developing and Organizing the project team
	Managing change; Managing Risks
	Performance reporting
	Reserves
	Assessing and monitoring project performance
	Earned value
	Sunk costs
	Project Closeout
	Scope verification and customer acceptance
	Administrative and contractual closure
	Transferring lessons learned to future project



Course ID:	Basics of Piping Engineering	
GTIS-PROJ-002		
Course of Interest for	Fundamentals of Fluids	
Piping Design Engineers	Different types of fluids	
Process Engineers	Flow pattern of various fluids	
Plant Operating Engineers & Managers	Laminar Flow, turbulent flow	
	Selection of type of flow and pipe line sizing	
	Concept of economical velocity	
	Pressure Drop calculations of Liquid Flow	
	Flow of Gaseous Fluids	
Inspection Personnel	Flow characteristics of gas	
Maintenance Engineers	Concept of Compressibility Factor	
Project Managers	Economical velocity for gaseous flow	
	Selection of Pipe Size for gaseous and steam flows	
	Pressure Drop calculations in gaseous flow	
Course Duration:	Piping for Vacuum Service	
10 days	Effect of Vacuum on fluid flow	
	Concept of Compressibility Factor in vacuum service	
	Selection of Pipe Size for Vacuum service	
Course includes:	Selection of Pump	
Training Materials	Various Types of Pumps	
Training Certificates	Flow and pressure characteristics of Centrifugal Pumps	
End-of-Course Report	Understanding of NPSHA and NPSHR	
Customized Toolbox	Optimization of selected pump for liquids	
	Optimization of centrifugal Pump for viscous applications	
	Selection of Valves	
	Various types of valves	
	Flow characteristic of various valves	
	Pressure drop in various valves (K factor)	
	Choosing a correct valve for intended application	
This course is designed to give a detailed discussion of the subject of Process Piping Fundamentals with emphasis on the basic fluid mechanics aspect. It also covers the design, fabrication, inspection and testing of Process piping. Important Piping requirements will be explained, including Short-cut methods in designing of Pipes, Pipe fitting and Flanges, process flow diagrams, piping & instrumentation diagrams, and equipment	Design of Piping System	
	Estimation calculations of available pressure	
	Estimation calculations of expected pressure drop	
	Calculation of Line size	
	Calculation of actual pressure drop based on piping routing	
	Trouble shooting in fluid flow	
	Piping Codes and Standards	
		

Course ID:	Fundamentals of Industrial Process, Measurement & Control
GTIS-PROJ-003	
Course of Interest for	Process Control Concepts
Process Engineers	Continuous, Batch
Electrical and E&I Engineers	Discrete Control
Production Engineers	Role of Measurement and Control in Industry
	Graphic Description of Loop Components
	Component Loop Dynamics
	Industrial Measurement Systems
Operations Managers	Sensor Selection and Characteristics
Maintenance Engineers	Transmitters
Project engineers	Smart Transmitters
Course Duration:	Pressure Measurements
10 days	Concepts
	Instruments
	Differential Pressure Measurement
Course includes:	Level Measurement
Training Materials	Hydrostatic Head Level Measurement
Training Certificates	Capacitance Level Measurement
End-of-Course Report	Ultrasonic Level Measurement
Customized Toolbox	By Weight
	Flow Measurement
	Fluid Fundamentals
	Methods and Concepts
	Differential Head Flow Measurement
	Velocity Flow Measurement Devices
	Mass Flowmeters
This course covers practical applications of distributed control systems. Included is relationship between programmable logic controllers and the DCS	Temperature Measurement
	Thermometers, Thermocouples, RTDs, Thermistors
	Temperature Transmitters
	Industrial Process Control
	Basic Feedback Control, Components, PID Control
	Final Control Elements
	Tuning Concepts
	Trends in Control Technologies
	Smart Components, Fieldbus
	



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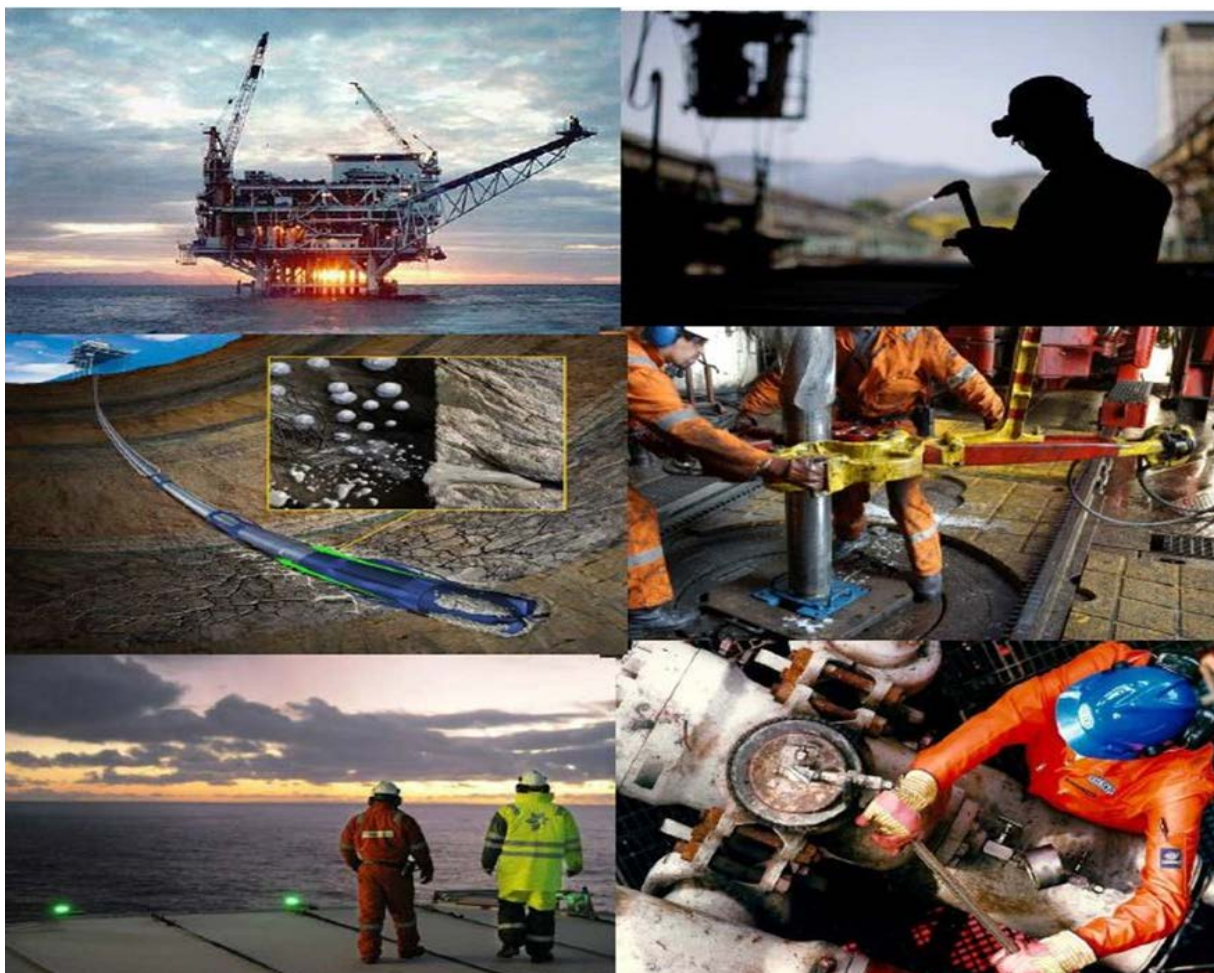


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Stimulation Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID:

GTIS-STIM-001

Course of Interest for

Drilling & Completion Engineers

Mud Engineers

Drilling Supervisors

Operations Manager

Drilling Manager

Chemists

Course Duration:

2 days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This highly technical course is providing deep understanding of all phenomena involved in damages created to formations during drilling and completion operations. It covers both field and lab aspects.

Formation Damage: What we think we know

Notions of Reservoir

Introduction to Skin and Well Productivity

Formation Damage Processes

Filtrate

Solids

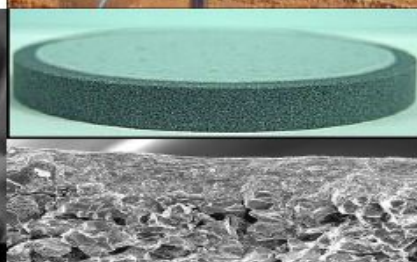
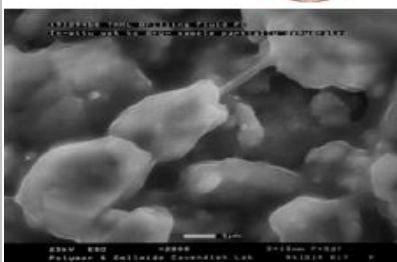
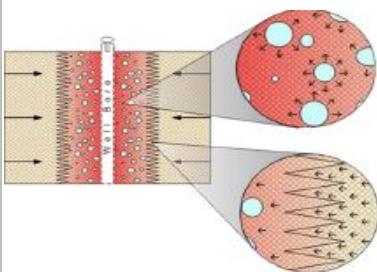
In-situ reactions

Clay mobilization

Bacteria induced damages

Testing Formation Damage

Guidelines



Course ID:

GTIS-STIM-002

Well Stimulations Techniques**Course of Interest for**

Drilling & Completion Engineers

Mud Engineers

Drilling Supervisors

Operations Manager

Drilling Manager

Chemists

Acidizing Processes

Matrix Acidizing of Sandstone Reservoirs

Matrix Acidizing of Carbonate Reservoirs

Case study: designing a acid stimulation campaign

Alternative Solutions to Acid

Enzyme

Acid Precursor Technologies (type N-Flow)

Hydraulic Fracturing

Water Shut Off Technologies

Course Duration:

3 days

Course includes:

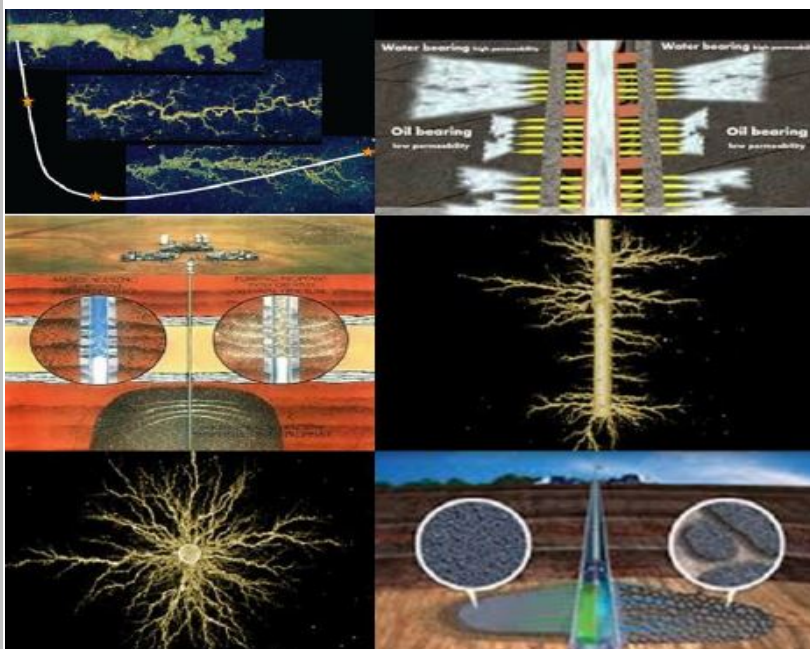
Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

This course is designed to provide an extensive overview of stimulation techniques, from matrix acidizing to alternative methods. It also comprises case history on stimulation campaign design strategy



Course ID:

GTIS-STIM-003

**Hydraulic Fracturing
Design and Treatment****Course of Interest for**

Production Engineers

Completion Engineers

Field operations staff

Rock mechanics/in-situ stress aspects of fracturing

Reservoir aspects of fracturing (How much fracture do I need?)

Fracture mechanics

Fracture design variables

Perforating for fracturing

Course Duration:

2 days

Fracture diagnostics

Fracturing Fluids

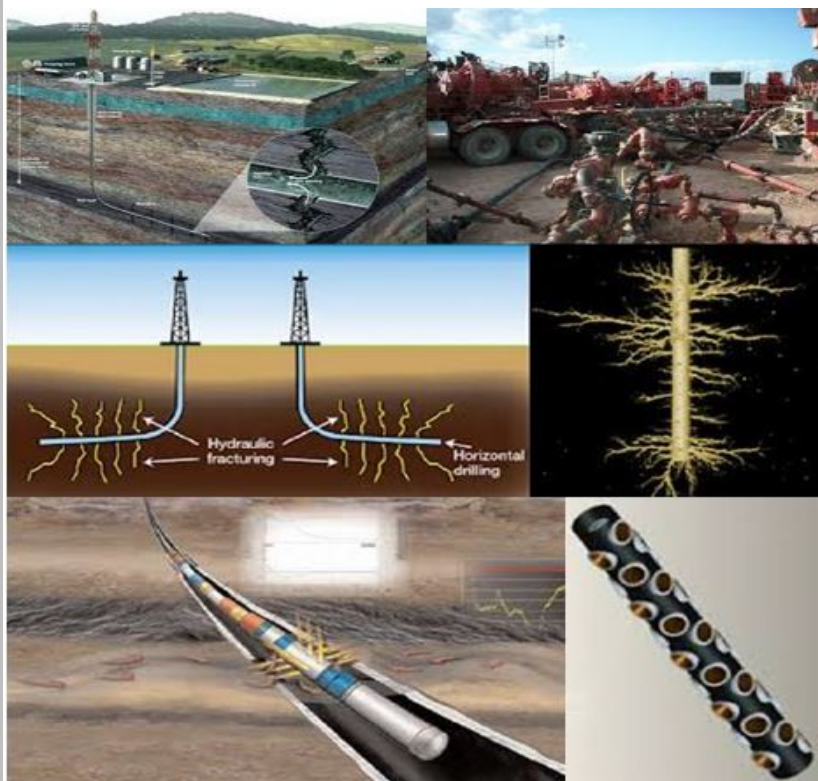
Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox



This course covers fundamental principles of hydraulic fracturing treatments used to stimulate oil and gas wells. It includes discussions on how to select wells for stimulation, what controls fracture propagation, fracture width, etc., how to develop data sets, and how to calculate fracture dimensions. Hydraulic fluids are also covered





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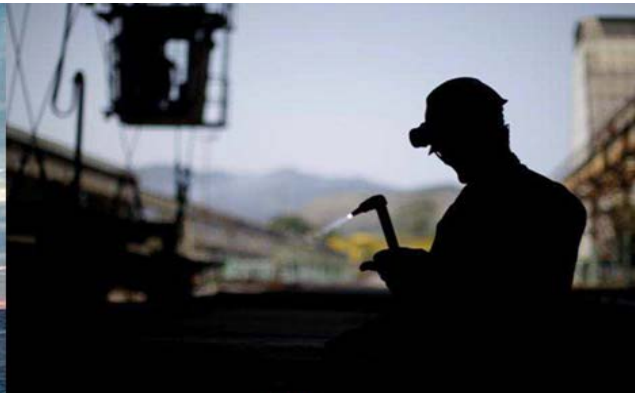


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Wire Operations Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID:	Wireline Formation Testing & Evaluation
GTIS-WLOP-001	
Course of Interest for	Need for formation testing and sampling
Wireline Operators	How WFT/FPWD/FSWD tools work Measurement fundamentals
Wireline Supervisors	Test types (pretest, extended flow, and packer test) Drawdown mobility applications
Drilling Engineers	Data QA/QC Factors influencing pressure data quality
Petrophysicists	
Geologist	Fundamental pressure gradient and FWL interpretation principles
Reservoir Engineers	Graphical interpretation techniques Scatter-plot for gradient QC FWL and compositional gradient detection Excess pressure plot for compartmentalization studies
Course Duration:	Normalization plot for depleted reservoir
5 days	Multiple pressure trends for reservoir compartmentalization Qualification and quantification of data interpretation uncertainties
Course includes:	
Training Materials	Mud filtration phenomena & near wellbore petrophysics Mud slumping
Training Certificates	Supercharging
End-of-Course Report	Wettability/capillary effect
Customized Toolbox	
This course is designed to satisfy the interdisciplinary need of geologists, petrophysicists, drilling engineers and reservoir engineers, who have an increasing use of wireline/LWD testing and sampling data. Practical class exercises are worked during the course	Downhole fluid ID Optical property measurement and contamination control Sampling principles and fluid sample quality assurance procedures In-Situ fluid property measurement and reliability Permeability test design and data interpretation Test program design & Class exercises
	

Course ID:

GTIS-WLOP-002

Course of Interest for

Wireline Operators

Wireline Supervisors

Drilling Engineers

Petrophysicists

Geologist

Reservoir Engineers

Course Duration:

3 days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

The course includes a detailed introduction to Slickline equipment and instrumentation used to control, condition and monitor downhole operations.

it provides a clear understanding of the primary operations & need for Slickline in the oil & gas industry.

Fundamentals of Slickline Operations

Slick line unit

Pressure control equipment

Tools string components

Running and pulling tools

Locks, Standing Valves and Landing Nipples

Flow control equipment

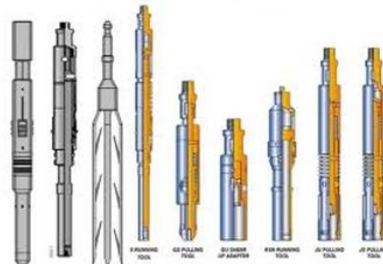
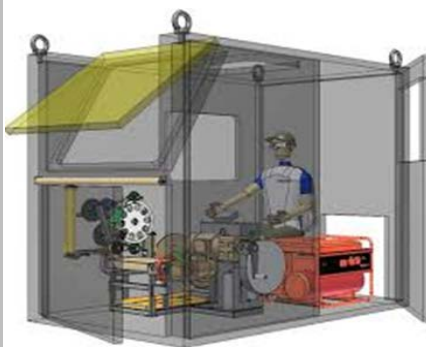
Running – Setting – Equalizing & Pulling process


Shifting tools

Service and remedial tools

Changing Gas Lift Mandrels

Running in well



Course ID:	Advanced Production Logging	
GTIS-WLOP-003		
Course of Interest for	Reservoir Fluids	
Technicians, supervisors or engineers with little or no prior knowledge of slickline	Formation Damage after matrix acidization	
	PI curves and Positive and Negative skin	
Course Duration:	Advanced Production Log Interpretations	
5 days	Slippage velocities	
	2-P & 3-P flow, flow regimes, flow stratifications	
	Production Logging in Horizontal Wells	
	Slippage velocities	
	In-situ measurements of slippage velocities	
Course includes:	New Technology applications for production Logging	
Training Materials	Electric sensors	
	Optical sensors	
Training Certicates	FlowScanner	
End-of-Course Report	Flow distribution across the borehole	
Customized Toolbox		
	Measuring Fluid Velocities	
	Slippage Velocities	
	Phase velocity logs	
	Oxygen-activation logs	
	Tracer injectors	
	Spinner calibrations	
	Measuring hold-ups in 1, 2 and 3 phase flow domain	
	Advanced Production Log Interpretation Workshop	
	Saturation Monitoring and Water Salinities	
	Carbon Oxygen (C/O) applications	
	Pulsed Neutron Logging (PNL) Applications	
	Behind Casing Formation Resistivities	
	Workshop on Saturation Monitoring	
This course focuses on providing in-depth evaluations of 2-phase and 3-phase flow in tubulars. it also reviewes various types of reservoir fluids and looks in some details at near wellbore formation damage and concept of positive and negative skin, to help analyzing Productivity Index (PI) of each zone in commingled production and analyze underperforming wells	Cased Hole Formation Tester	
	New applications of Formation testing in cased hole	
	Integration of data with other cased hole data	
	Visit of Client's base	
	Review of PL tools	
	Monitoring tools best practices	
		

Course ID: GTIS-WLOP-004	On the Job Training PLT Standards & Optimization
Course of Interest for PLT Operators	On-site training On-the-job training is mainly carried out in shifts at the plant. Instructors help trainees acquire knowledge and know-how needed to perform at expected level Program depends on Client's operational requirements
Course Duration: On site continuous training Duration: 1 years (6 rotations) Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox Standardization Posters	Mentoring Instructors play the role of mentors in the training process by: Supervising and guiding trainees they are in charge of Leading coordination between training and on-site phases Validating specific OJT knowledge and skills acquired Assessing trainee's ability to evolve in Client's organization Typical Rotations Schedule: 4x4 or 5x5



Course ID:

GTIS-WLOP-005

Fundamentals of Slickline for Weatherford Operations**Course of Interest for**

Wireline Operators

Wireline Supervisors

Drilling Engineers

Petrophysicists

Geologist

Reservoir Engineers

Course Duration:

x days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox

Course Under Preparation





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Business Support Courses



World-Class Out-Sourced Training Solutions for Your Operations

Course ID: GTIS-BIZS-001	Business Support for Managers
Course of Interest for Team Leaders Department Managers Sole Proprietors Project Managers	Module 1: Strategy & Marketing Module 2: Business Unit Financing Module 3: Leading Business Unit Module 4: Team Leadership and Management Module 5: Human Resources key competencies for Managers Duration of each module is 2 days.
Course Duration: 10 days	
Course includes: Training Materials Training Certificates End-of-Course Report Customized Toolbox	
<p>This course intends to provide knowledge to newly promoted managers and business owners about leadership and company's organization. The attendees will be guided on how to set consistent goals, strategies and practises for themselves and the management team to ensure business runs smoothly and its members grow together</p>	
	

Course ID:

GTIS-BIZS-003

Course of Interest for

XXXXXXXX

Course Duration:

2 x 5 days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

XXXXXXX

Course Duration:

Course includes:

- Training Materials
- Training Certificates
- End-of-Course Report
- Customized Toolbox

Module 1 (2 days)

- Employment mapping*
- Strategic Positions*
- Competencies lexical*

Module 2: Competencies Appraisal baseline (3 days)

Module 3: Talents evaluation (2 days)

Module 4: Definition and Management of mobility (1 day)

Module 5: Competencies and Training (2 days)



Course ID:

GTIS-BIZS-004

HR Focus "HR Overview for new comers"

Course of Interest for

XXXXXXX

Course Duration:

4 days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox
Decision tool

Course
Under
Preparation



Course ID:

GTIS-BIZS-005

HR Focus "All about Recruitment"

Course of Interest for

XXXXXX

Course Duration:

4 days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

Course Under Preparation



Course ID:

GTIS-BIZS-006

Course of Interest for

XXXXXXX

Course Duration:

4 days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

HR Focus

"HR Manager, Business and Human Partner"

Course Under Preparation



Course ID:

GTIS-BIZS-007

Course of Interest for

XXXXXXX

Course Duration:

3 days

Course includes:

Training Materials
Training Certificates
End-of-Course Report
Customized Toolbox

HR Focus
"Building/Updating your Pay Strategy"

Course
Under
Preparation



Course ID:

GTIS-BIZS-008

HR Focus

"Internal Mobility Management"

Course of Interest for

XXXXXXXXXX

XXXXXXXXXX

XXXXXXXXXX

Course
Under
Preparation

Course Duration:

3 days

Course includes:

Training Materials

Training Certificates

End-of-Course Report

Customized Toolbox





GTI SERVICES

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Contact: manager@gtis.com.ph

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