Natural Gas Dehydration Technology
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Introduction</td>
<td>01</td>
</tr>
<tr>
<td>Course Objectives</td>
<td>01</td>
</tr>
<tr>
<td>Course Outline</td>
<td>02</td>
</tr>
<tr>
<td>Section 1</td>
<td>03</td>
</tr>
<tr>
<td>Section 2</td>
<td>03</td>
</tr>
<tr>
<td>Section 3</td>
<td>04</td>
</tr>
<tr>
<td>Section 4</td>
<td>04</td>
</tr>
<tr>
<td>Section 5</td>
<td>05</td>
</tr>
<tr>
<td>Averest’s Training Methodology</td>
<td>06</td>
</tr>
<tr>
<td>Course Fees</td>
<td>07</td>
</tr>
<tr>
<td>Included in this Averest Training Package</td>
<td>07</td>
</tr>
<tr>
<td>Assessment Method and Attendance Documentation</td>
<td>07</td>
</tr>
</tbody>
</table>
Course Introduction:
Natural gas is usually in contact with water in the producing reservoir and comes to the wellhead saturated with all the water vapor it can hold. It may either be dehydrated at the wellhead or brought into the plant wet. Removing most of the water vapor from the gas is required by most gas sales contracts because it prevents hydrates from forming when the gas is cooled in the transmission system.

Course Objectives:
State four major reasons for removing water from gas distribution systems. State the specification of water content in gas for the transport of gas in pipelines. Using the correct graph and given the gas conditions of pressure and temperature, calculate the water content of the gas. List the requirements for hydrate formation and describe how hydrates are produced and the dangers of hydrate formation.

Who Should Attend?
- Process operations professionals.
- Field & DCS operators.
- Petroleum & chemical engineers.
- Oil & Gas Treatment technicians.

Assessment Method & Documentation
Attendance will be taken via the Averest attendance sheet at the beginning of every training day. Assessment is kept informal throughout the learning process until the final day, thus providing valuable opportunities for learning. Some assessments are done in groups providing the opportunity for collaboration and team problem solving, self-assessment is used to guide learner’s knowledge of their learning.

The course itself, instructor presentation and overall experience are also assessed by the participants through the attached feedback form, the results will be shared with your company.
Course Outline

Section One:
• Introduction to gas dehydration (What? and Why?)
• The water content of natural gas and Dewpoint concept
• Gas Hydrates (Formation, Removal, Prevention)
• Dehydration Methods (Liquid and Solid Desiccant, Comparison)

Section Two:
• Absorption & Striping principle
• Process description
• Absorption column (Contactor) and regenerator
• Pressure reduction valve & Flash tank
• lean/ rich Heat exchanger & Filters
• Reboiler & Reflux drum
• Circulation pump

Section Three:
• Dehydration Unit start-up
• Dehydration Unit Shut Down
• Normal operations conditions
• Main equipment operation (TEG pump, H.Ex)
• The main control loops

Section Four:
• Operation conditions turbulence:
  • (Gas Temperature, Flowrate, Glycol Temperature, Circulation, Concentration)
• Foaming formation
• TEG Pump problems
• L/R Glycol H.EX problems

Section Five:
• Adsorption Principle
• Main equipment & Process description
• Solid desiccant Operation
• Solid desiccant troubleshooting
• Advantages and disadvantages
Our Methodology

Averest’s Training Methodology

The effort is focused on participants to complete the course gaining maximum learning benefits and outcomes. We consider the mindset from the beginning to end, incorporating the growth mind-set theory so attendees are walking away feeling inspired, empowered and have an increasingly positive attitude towards their role with the newly acquired knowledge.

We consider company culture, attendee knowledge and attitudes.

We emphasise on keeping participants engaged by enriching the training with quality audio-visuals, opportunities for practical learning, reflective practices, chances to work in teams with their peers and the opportunity for valuable discussions with peers, Averest representatives and instructor. We ensure there are relevant activities, case studies and examples to frame the learning.

We finally provide an opportunity for assessment and consistent feedback and reflection throughout the learning process, therefore keeping learners aware of their place on their learning journey.
# Course Fees

## Terms and Conditions

<table>
<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Venue</th>
<th>Course Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>OGC 002</td>
<td>08/06/2020</td>
<td>To Be Confirmed, Istanbul, Turkey</td>
<td>$4950.00 USD</td>
</tr>
<tr>
<td>OGC 002</td>
<td>13/07/2020</td>
<td>To Be Confirmed, Istanbul, Turkey</td>
<td>$4950.00 USD</td>
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</tbody>
</table>

**Included in This Package:**

At Averest training we provide a wide range of training programs in collaboration with ministries, universities, municipalities, organizations and a number of parties. We believe that high-quality training is essential to the enhancement of skills and abilities to achieve the ultimate vision and mission of a business.

**Our proposal consists of following:**
- Pre-course consultation
- Training course material
- High experienced instructor/s fee
- Certificate of completion
- Post-course follow-up
- All related Averest’s quality control tools
- Required stationary
- Airport transportation
- 5 or 4 stars training venue

**Method of Terms**

Payment expected to be done as follows:
- 100% in advance payment to confirm course(s)

**Course Withdrawal, Cancellation and Rescheduling:**

- Less than ten business days in advance: No refund available but you may send others of equal number to the registered to take the registering place without any additional cost or you may request for your course notes to be mailed to you.

Those who fail to show up for the course they registered for, or those who withdraw without providing sufficient notice as described above, will be subject to the full fee of the course and will be invoiced for the full cost of the respective course or program.

In the event that Averest chooses to cancel a course, a full refund of the course fees will be issued to the registrant.
Registration Form

YES, PLEASE SIGN ME UP FOR THE FOLLOWING

Short Code: ..........................................................................................
Course Name: .................................................................................
Commence Date: ............................................................................

Salutation: ..........................................................................................
Full Name: ......................................................................................
Venue: ..............................................................................................
Job Title: ...........................................................................................
Institution/Company Name: ..............................................................
Company Address: ..........................................................................
Postal Code: ....................................................................................
Country: ............................................................................................
Company Website: ..........................................................................
Nature of Business: ..........................................................................
Email: ..............................................................................................
Office Telephone: ...........................................................................
Mobile: ............................................................................................

☐ Yes, I would like to receive notification of upcoming courses by email

PAYMENT DETAILS (Bank Account (USD) Details):

Company Name: AVEREST GROUP EGITIM TURIZM ORGANIZASYON SANAYI VE TIC LTD STI
Bank Name: AKBANK
Bank SWIFT Code: AKBKTRJSS88
Branch Name: FATIH/Istanbul
USD – Account No: 0081267
USD – IBAN: TR28 0004 6001 5200 1000 0812 67
Bank Branch Address: Macar Kardeşler Cad. No62 Fatih - İstanbul-TURKEY
Branch Telephone: 0212 534 80 50
Branch Fax: 0121 531 19 09
UPCOMING COURSES

10/08/2020 Claims Preparation and Dispute Management
10/08/2020 Business Etiquette and Protocol
17/08/2020 5G Slicing
21/09/2020 Cloud Computing & Virtualization

GROUP DISCOUNT:
2nd Registration: Save %10
3rd Registration: Save %15
4th Registration: Save %20
Additional Registrations: Save %25

2 WAYS TO REGISTER:
1. Online: www.averesttraining.com
2. Email: info@averesttraining.com

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