

## COURSE OUTLINE GPO 1405

### GAS PROCESS OPERATIONS PLANT PROCESSES

<u>MODULE NUMBER</u>	<u>MODULE NAME</u>
27-31-95-02	Glossary of Terms
27-31-14-02	Oil and Gas Compositions and Sales Specifications
27-31-38-02	Gas Plant – Developments and Types
27-31-38-04	Gas Plant – Process Description
027-31-38-06	Gas Plant – Process Flows
027-31-38-08	Gas Plant – Inlet Separation
27-31-38-10	Gas Plant – Inlet Equipment and Operations

#### QUIZZ: 2<sup>nd</sup> week in October

027-31-38-12	Condensate Stabilization System
027-31-38-14	Stabilization Equipment
027-31-38-16	Stabilization Operations
027-31-38-18	Sweetening Processes
027-31-38-20	Sweetening Chemicals
027-31-38-22	Sweetening Equipment
027-31-38-24	Sweetening Operations
027-31-38-26	Sulphur- Introduction
027-31-38-28	Sulphur – Claus Process
027-31-38-30	Sulphur – Processing Method
027-31-38-32	Sulphur _ Process Control
27-31-38-34	Sulphur _ Plant Operations

#### QUIZZ:2<sup>nd</sup> week in November

#### MIDTERM EXAM: 2<sup>nd</sup> week in November

027-31-38-36	Dehydration _ Definitions, Testing
027-31-38-38	Dehydration _ Chemicals, Liquid Desiccants
027-31-38-40	Dehydration _ Glycol Equipment and Operations
027-31-38-42	Dehydration _ Solid Desiccants
027-31-52-02	Refrigeration _ External Processes
027-31-52-04	Refrigeration _ Cryogenic Processes
027-31-87-02	Introduction to Fractionation
027-31-87-04	Fractionation Tower and Tray Design
027-31-87-06	Fractionation Equipment
027-31-87-08	Fractionation Systems
27-31-93-20	Fractionation Operational Procedures

#### QUIZZ: 4<sup>th</sup> week in November

027-31-97-10	Hydrocarbon Treating – Caustic Systems
027-31-97-12	Hydrocarbon Treating – Molecular Sieve Process
027-31-97-14	Hydrocarbons Storage and Handling
027-31-38-35	Sulphur Plant Tail Gas Cleanup
27-31-50-02	Gas Compression – Classification & Types
27-31-50-04	Gas Compression – Compressor Components
27-31-50-06	Gas Compression – Valves and Rod Packing
27-31-50-08	Gas Compression – Rotary Machines
27-31-50-10	Gas Compression – Dynamic Compressors
27-31-50-12	Gas Compression – Auxiliaries, Stage Arrangements
27-31-50-14	Gas Compression – Basic Controls
27-31-50-16	Gas Compression - Lubrication
27-31-50-18	Gas Compression – Drivers, Operational Controls

**QUIZZ: 2<sup>nd</sup> week in December**

**Final exam: 2<sup>nd</sup> week in December**

**Please Note: Quizzes , Midterm and Final Exam dates are tentative and may be subject to change. Related course material will supplement the SAIT modules. This material will be provided and students will be evaluated on the content.**