Operator Training Solutions for Oil & Gas Production, NGL (Gas Plant) & LNG Facilities, Refineries & Petrochemical Facilities, Power Plants & Technical Colleges.
Cloud-based SaaS solution provides anytime, anywhere access to rich learning content to broaden the learning environment, and allow users to conduct training where they learn best.

**EnVision On-Demand**

- **On-Demand** Learn anytime, anywhere
- **No IT requirement** No software to load, tracking versions, etc.
- **Structured Learning** From basic to advanced learning
- **Proven Content** Validated by world’s largest oil and gas companies for over 20 years

**Learning Management System**

Included LMS can work as your platform or provide input into your specific LMS

**Tutorials**

Content rich and self paced -- Gain the basic knowledge needed to progress to more process-specific instruction

**Simulations**

High-fidelity simulation models -- safe learning environment features predefined training exercises and the ability to create your own

**Administration**

The metrics you need for continuous improvement -- track student, department and site performance, analyze challenging subjects, and more
The e-Learning Tutorials are multimedia based self-paced tutorials that teach the fundamentals of various unit operations and process control. The tutorials have built-in quizzes, and come with learning management software that allows an instructor to register trainees and monitor their performance and quiz scores.

Delivered using voice, video, animation and graphics
- Provides focused and structured learning
- Develops mental models for Unit Operations
- Teaches:
  - “Why”, developing reasoning skills
  - Principles of Operations
  - Cause and effect relationships
- Pre/Post tests
- Review questions

The Simulator is a real-time dynamic simulator for practicing various operations, such as startup, shutdown, normal operations and troubleshooting on a process specific simulated unit.
- Simulation control with Pause, Resume & Accelerated mode
- Multiple initial conditions
- Snapshots
- Equipment and instrument malfunctions
- Scenarios
- User changeable battery limits
- On-line help
- User log
- Composition analysis
- Extensive printing and logging functions
- DCS-like, with generic instrument and graphic displays

Combines comprehensive standardized dynamic simulations and e-Learning tutorials for training operators, engineers, and maintenance staff

Visit www.GSES.com/EnVision for more information
Unit Operations
- Amine Treating for Refineries (Sim + CBT)
- Boiler (Sim + CBT)
- Compressor (Sim + CBT)
- Distillation: Depropanizer (Sim + CBT)
- Furnace (Sim + CBT)
- Pump (CBT)

Upstream/Midstream
- Amine Treating for Upstream (Sim + CBT)
- Glycol Dehydration (Sim)
- GOSP: Gas Oil Separation Process (Sim + CBT)
- Propane Refrigeration Unit (Sim + CBT)
- Feed Gas Conditioning (Sim + CBT)
- NGL Fractionation (Sim)
- NGL Gas Plant with Demehanizer (Sim + CBT)
- LNG-SMR, using Single Mixed Refrigerant (Sim + CBT)

Refineries
- Alkylation-HF (Sim + CBT)
- Alkylation-HFOS4 (Sim + CBT)
- Blending: Gasoline and Fuel Oil (Sim + CBT)
- CDU Atm. & Vacuum (Sim + CBT)
- Delayed Coker (Sim + CBT)
- FCC: Fluidized Catalytic Cracker (Sim + CBT)
- HCU: Hydrocracker Unit (Sim + CBT)
- Hydrogen Unit (SMR) with PSA (Sim + CBT)
- Reformer-CCR (Sim + CBT)
- Reformer-Fixed Bed (Sim + CBT)
- SRU: Claus Process (Sim + CBT)
- SRU: SCOT Tail Gas Treating Unit (Sim + CBT)
- Visbreaker (Sim + CBT)

Power
- Furnace (Sim + CBT)
- Steam & Power Generation Boiler (Sim)
- Steam Boiler (Sim + CBT)

Process Fundamentals and Controls
- Process Fundamentals-I (Sim)
  - Gas & Liquid Flow
  - Pipe Flow Network
  - Single Phase Heat Exchanger
  - Single Phase Exchanger with Bypass Control
  - Air Cooler
  - Tank & Pump
  - Tank, Pump & Heat Exchanger
- Process Fundamentals-II (Sim)
  - Centrifugal Compressor
  - Condensing Heat Exchanger
  - Flash Drum
  - Kettle Type Reboiler Heat Exchanger
  - Mixer with Heating Jacket
  - Reciprocating Compressor
  - Steam Turbine with Condenser
  - Reflux Drum with Overhead Condenser
  - Three Phase Separator
- Process Fundamentals-III (Sim)
  - CSTR Reactor
  - Cooling Tower
  - Distillation: Ethanol + Water
  - Distillation: Methanol + Water
  - Liquid-Liquid Extraction
  - Tank Terminal
- Process Control Fundamentals (Sim)
  - Cascade and Ratio Control
  - Feed Forward Control
  - Override Control
  - Split Range Control
- Process Control Experiments
- Basic Process Control (CBT)
- Advanced Process Control (CBT)
- Instrumentation (CBT)

Ethylene
- Acetylene Converter Reactor (Sim + CBT)
- Ethylene Cracking Heater (CBT)
- Ethylene Refrigeration Unit (Sim)