

DarbyTech Training Equipment manufactures technical training equipment used to support and enhance the training of engineering students, operators and technicians working within the engineering disciplines across the oil and gas production, downstream processing, petrochemical, chemical process, utility and energy sectors. The equipment mimics real-world industry plants and our products use the current technology expected in today's process environment and the training outcomes reflect as close as possible the current "custom and practice" with specific reference to health and safety, legislation, standards and regulation, with the latest DCS / PLC / Instrumentation technology.

Trainers:

- Three Phase Separator Trainer
- Binary Distillation Trainer
- Gas Absorption Trainer
- Heat Exchanger Trainer
- Steam Electrical Generation Trainer Tank Level Flow Trainer
- Flash Drum Trainer
- Chemical Reaction Trainer
- Adsorption Trainer
- Compressor Trainer
- Fluidized Catalytic Cracker Unit Trainer

- Bioethanol & Biodiesel Trainer
- Mechanical Maintenance Trainer

Custom designed Integrated Training Plants

Cutaways and classroom teaching aids



Demonstrators:

- Gas Contactor / Distillation Column Demonstrator
- Horizontal or Vertical Separation Demonstrator
- Heat Exchanger Demonstrator
- Two Phase Flow Demonstrator
- Pipeline Pigging Demonstrator
- Well Bore Demonstrator

Trainer Controls:

- Siemens PCS7 DCS
- Emerson DCS
- Foxboro DCS
- ABB 800xA DCS
- Rockwell PLC



Our process trainers are fully instrumented with either a Programmable Logical Control (PLC) or a Distributed Control Systems (DCS).

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"the plant is no place to practice!"

Benefits

Fully-functional and designed to enhance student learning with multiple training outcomes. Look and behave like real industry processes, fully instrumented and automated with the type of equipment found in industry.

Selected components are made of glass or other transparent materials to allow the student to observe the process.

Reduce costs: Steady-state is achieved in 20 minutes or less. Multiple training outcomes across the disciplines. Trainees are better skilled and more job ready when they complete their training.

Environmentally friendly: process fluids are recycled for continuous operation where possible.

Safe: each unit uses the safest practical materials, modest process conditions and highest quality industry style components and materials to create a safe training environment.

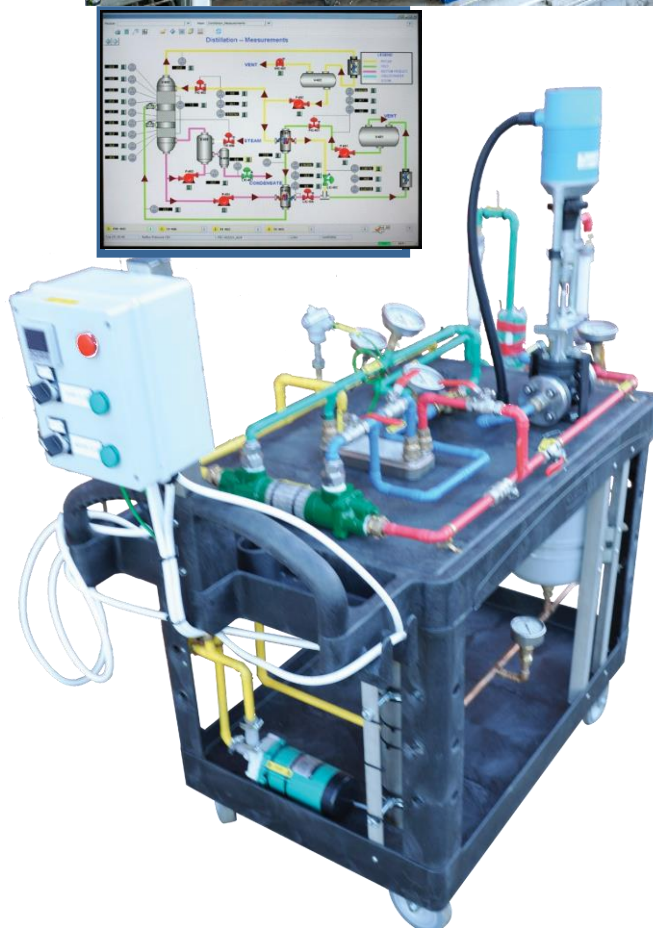
Easy to operate: operating manuals include typical student training exercises. Instructors are trained to operate the equipment as part of the installation Process.

Services

Consultancy on training equipment, planning requirements, and functional safety. Custom design and manufacture, supporting applied research, pilot plant and up scaling.

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