# Electrical Distribution Simulator

Online Training

Simulation is an effective training method because it reinforces concepts by giving students a hands-on approach to solving problems on an actual distribution system. Through simulation, students master Real-time situational awareness and decision-making.

Our simulator, the first in the power industry, is designed to train distribution system operators to perform normal and emergency tasks regardless of organization size. Operators learn to recognize potential problems and identify solutions to avoid system outages. They also practice isolating equipment for maintenance and trouble-shooting day-to-day issues.

The Electrical Distribution Simulator model replicates load distribution for a medium-size city with 40 to 50 MVA of load. It includes three distribution substations with a total of four transformers which reduce voltage from 138 kV to 12.5 kV. Twelve radial distribution feeders supply the city's load which can be reconfigured through switching procedures to isolate faults or maintain equipment.
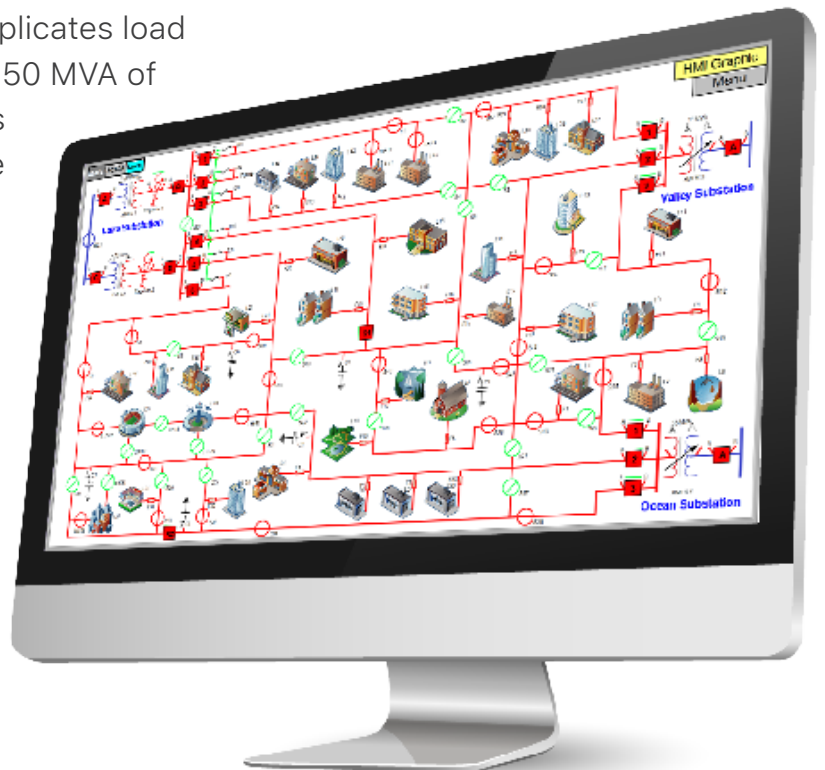
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The simulator is designed to complement the Distribution Control Center Operations Training program. It can be taken as individual online courses.

Equipment modeled in the simulator includes:

- LTC transformers
- Voltage regulators
- Capacitor banks
- Fuses
- Reclosers
- Breakers, switches, and disconnects

The distribution simulator includes 10 scenarios covering the following topics from the Distribution Control Center Operations training program:

- Voltage control using regulators and capacitors
- Paralleling transformers and regulators
- Fault isolation and repair
- Equipment isolation for maintenance

Contact your account manager for a free demonstration.

Purchase 10 simulation lessons for $1,200
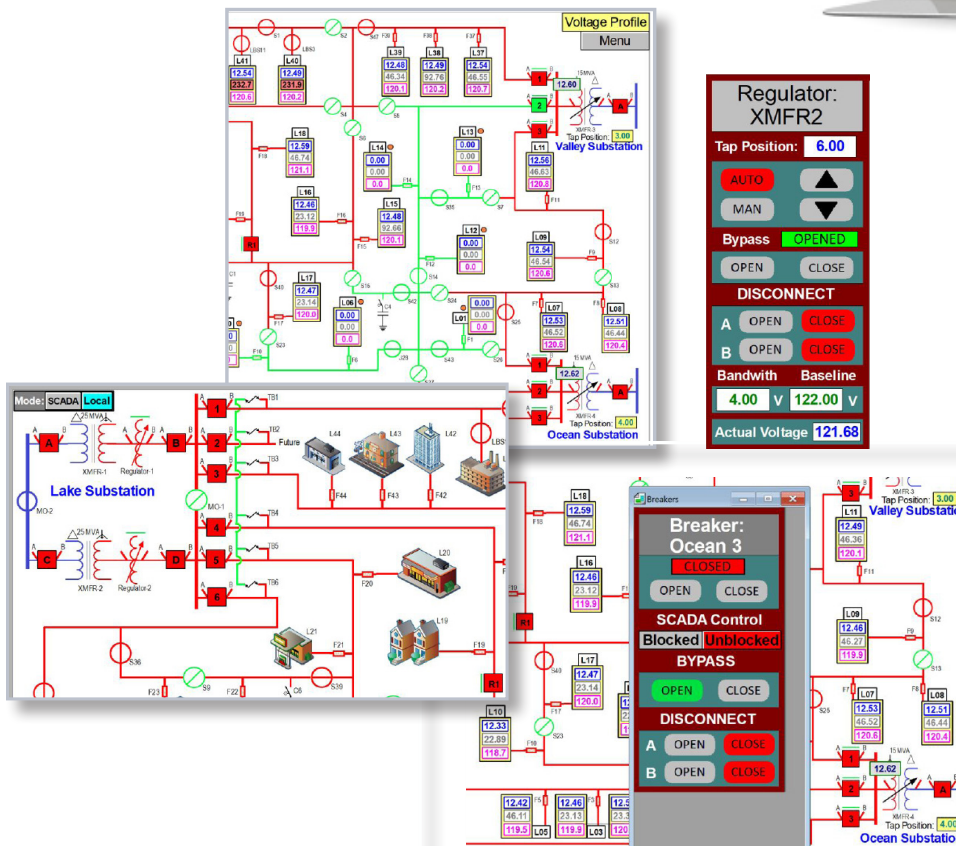
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