



## We are #1 in Industrial Skills Training!

Let us work with your facilities engineering and maintenance team members to assess current state and build a bridge to desired state knowledge.

Allow us to guide your team members in co-development of targeted training for optimizing facilities and equipment = maximized uptime, quality and throughput.

### Central Utilities Course Bundle

55 Total Lessons

Online Training

#### Module 1 – Basic Electricity

Electron Theory	491-01
Magnetism and Electromagnetism Explained	401-02
Introduction to Alternating Current (AC)	402-01
AC Induction Motors	409-01
AC Generators	409-02
Transformer Basics	415-01
Electrical Backup Systems	416-02
Multimeter	605-01

#### Module 2 – Plant Instrumentation & Control Theory

Instrumentation and Control Overview	603-01
Principles of Temperature	603-02
Principles of Pressure	603-03
Principles of Level	603-04
Principles of Flow	603-05
Temperature Instruments	603-06
Pressure Measuring Devices	603-07
Level Measuring Devices	603-08
Flow Measuring Devices	603-09
Introduction to Automated Control	613-01

#### Module 3 – Mechanical Systems & Equipment

Working Principles of Simple Machines	201-01
Hand Tools, Part 1	201-02
Hand Tools, Part 2	201-03
Portable Power Tools	201-04
Introduction to Centrifugal Pumps	219-01
Introduction to Valves and Their Components	215-01
Heat Exchanger Theory	223-01
Introduction to Positive Displacement Pumps	231-01
Introduction to Hydraulics	243-01

#### Module 4 – Electrical Systems & Equipment

Motor Control Centers	411-04
Switchgear	417-01
Low Voltage Breakers	417-02
Grounding and Bonding	418-05
Electrical Freeze Protection Components and Application	427-01
Main Transformers	560-01
Fuses and Circuit Breakers	560-03
Equipment Disconnects and Grounding	560-05

#### Module 5 – Plant Drawings

P&ID Basics	611-01
Reading a P&ID	611-02
Electrical Drawings	611-03
Industrial Print Reading Overview	611-05

#### Module 6 – Power Generation & Plant Components

Energy Conversions	501-01
Generator Overview	501-05
Cooling Towers: Operating Principles and Design	551-08
Cooling Towers: Components	551-09
Diesel Engines for Power Generation	581-01

#### Module 7 – Basic Water Chemistry & Treatment

Molecular Chemistry of Water	559-01
Elements and the Periodic Table of Elements	559-02
Chemical Compounds	559-03
Corrosion Causes and Effects	559-04
Industrial Water Treatment Systems	559-07
Reverse Osmosis	559-10

#### Module 8 – District Energy

Air Conditioning Fundamentals	670-01
Chiller Design and Maintenance	670-06
Ducting and Air Movement for HVAC Systems	670-09
District Energy Basics	670-15
Package Boiler Fundamentals	670-17

Visit our website for a partial list of courses and sample training, or email [info@gecbts.com](mailto:info@gecbts.com) for more information. You may also call one of our Transformation Specialists at 1-800-219-7929