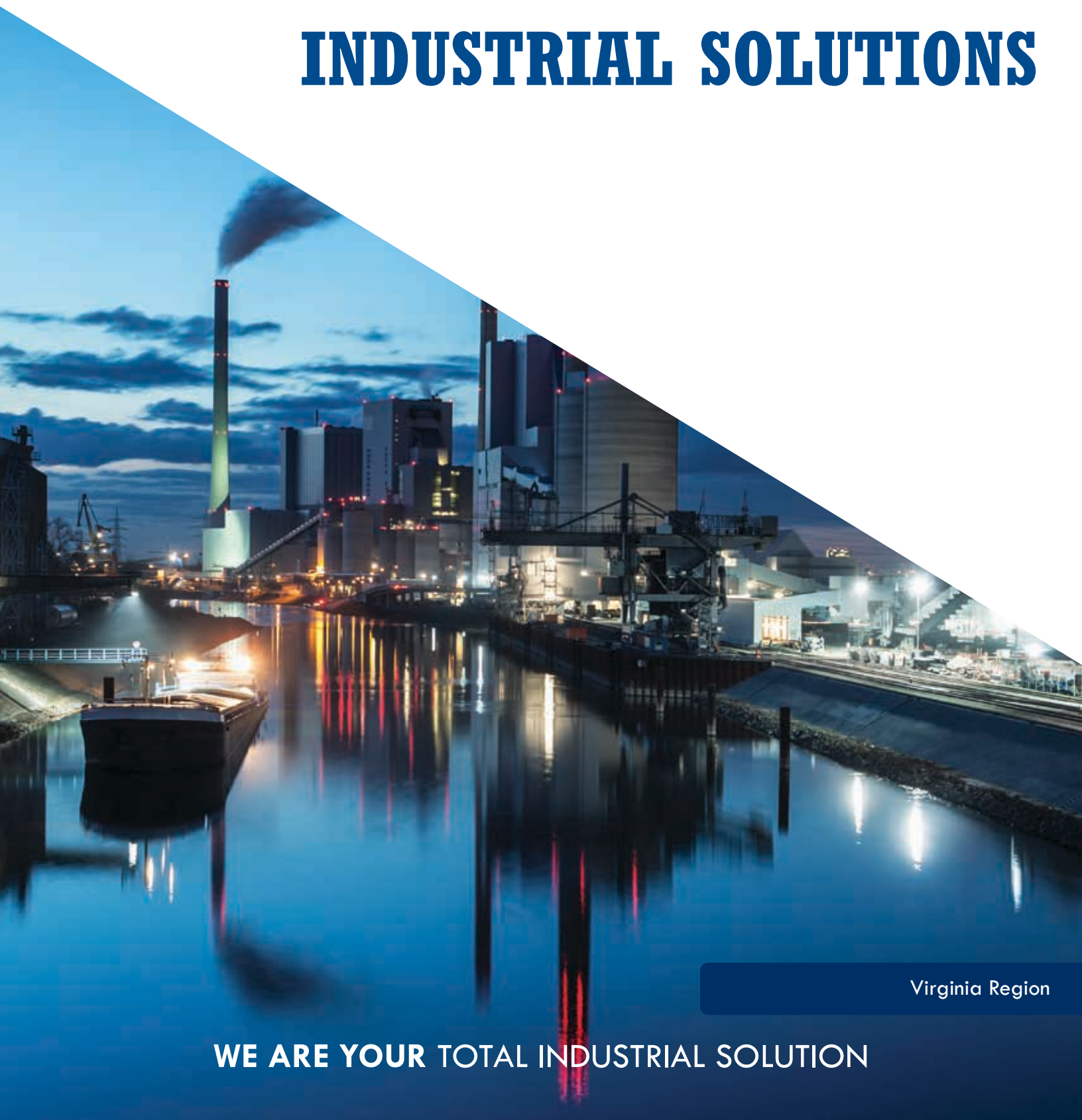




**STATE ELECTRIC  
SUPPLY CO.**  
CUSTOMER FOCUSED, QUALITY DRIVEN

# INDUSTRIAL SOLUTIONS



Virginia Region

**WE ARE YOUR TOTAL INDUSTRIAL SOLUTION**

State Electric Supply Company provides a complete product and services offering for all industrial applications. We are a full-line Electrical, Datacom, Power Transmission, and Utility distributor, and we can supply your product needs to maintain, modernize and optimize your plant wide facilities and equipment.

## Applications



Industrial Automation



Controls and Panel Building



Motors, Gears and Bearings



Industrial Networks



Facility Lighting

## Products



3M  
Arlington Industries  
Austin Electrical Enclosures  
Baldor A Member of the ABB Group  
Belden  
Block  
Brady  
Burndy  
Cerrowire  
Charlotte Wire & Cable  
CME Wire & Cable  
Cooper Lighting Solutions  
CREE  
Dwyer  
Eaton  
Eaton B-Line  
Eaton Bussman  
Eaton Crouse Hinds  
Eaton Wiring Devices  
Eiko  
Festo

Finder  
Fluke  
GE  
Greenlee  
Hammond Power Solutions  
Hirschmann  
Holophane  
Hubbell Killark  
Hubbell Lighting  
Hubbell Power Systems  
Hubbell Raco  
Hubbell Wiring Device-Kellems  
IDEAL Industries  
Intermatic  
Klein Tools  
Lapp Group  
Legrand  
Leeson  
Lithonia Lighting  
Lutron  
Lutze Cable

Milwaukee  
OCC  
Okonite  
O-Z/Gedney  
Panduit  
Pepperl+Fuchs  
RAB Lighting  
Red Lion  
Rittal  
Service Wire Co.  
Schmersal  
Siemens  
Sprecher + Schuh  
TCI  
Thomas & Betts A Member of the ABB Group  
Toshiba  
Universal Lighting Technologies  
Weidmüller  
Wiha Tools



*All lines listed may not be available at all locations. Lines are subject to change and additional lines may be available.*

## LOCAL • KNOWLEDGEABLE • TECHNICAL SUPPORT

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# Training

We offer several Industrial Automation training classes. These classes are conducted in our Roanoke training facility, or at your facility. Contact your local branch location for course dates.

## Arc Flash Awareness

### Agenda

Article 110: Safety Manual

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Article 120: Lock Out Tag Out

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Article 130: Working on or near Electrical Hazards

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Understanding Known Electrical Hazards

---

Limited Approach Boundary

---

Restricted Boundary

---

Arc Flash Boundary

---

PPE Class Requirements

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Hazardous Risk Assessment

## Basic Controls

### Agenda

Reading Drawings, One-Line and Schematics

---

Basic AC and DC Circuits

---

Explanation of DI, DO, AI, AO, RO, Pulse Related to Control Devices

---

Understanding Relays

---

In-Depth Look at Motor Starters, Applications and Sizing OL Units

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In-Depth Look into Properly Sizing IEC Contactors

---

Basics of Solide State Relays

---

Limit Switch Wiring, Mounting, Types and Application

---

Proximity Switches (Indusction and Capacitance) Wiring, Types and Applications

---

Photo Switches Wiring, Mounting, Types and Applications

---

Binary Numbers

---

Basic Process Control, Control Loop, Transducer, Transmitter and Control Drawing

## Eaton HMAX Certified Start-Up

This class is for electricians, technicians, HVAC technicians and others who desire to be certified to perform Eaton HMAX CSU to receive a 3 year warranty on the VFD.

## Basic VFD

### Agenda

VFD Proper Installation

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VFD Power Structure

---

VFD Rectifier

---

VFD DC Buss

---

VFD Inverter

---

VFD Control

---

VFD Applications

---

VFD Energy Saving Topics

---

VFD Troubleshooting

---

VFD Safety Issues

---

VFD Issues: Harmonics, Reflective Wave, Common Mode Current, Motor Bearings

---

VFD Line Reactors, Filters, Cable, Sine Filters

---

Basic Motor Operational Topics

## VFD Programming

### Agenda

VFD Configuration

---

VFD Parameter Layout

---

VFD Wizards

---

VFD Marco's

---

VFD Control Modes

---

VFD Control Wiring to Programming Relationships

---

Various Application Programming

---

Specific Applications on Request

## PLC 100

### Agenda

PLC Theory

---

PLC Layout

---

PLC Wiring

---

PLC Basic Programming

---

PLC Troubleshooting

---

PLC Program Documentation

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## **Industrial Solution Technical Specialists**

We have Technical Specialists on staff to assist you with applications of Drives, PLC's, HMI's, control systems, instrumentation, industrial networks, motors, bearings, gears, repair services and system wide troubleshooting.

## **Contact a Location Nearest You**

### **Christiansburg**

390 Arbor Drive  
Christiansburg, VA 24073  
540.382.6415

### **Roanoke**

3105 Shenandoah Ave., NW  
Roanoke, VA 24017  
540.343.3800

### **Covington**

348 North Monroe Avenue  
Covington, VA 24426  
540.965.5200

### **Wytheville**

225 North 11th Street  
Wytheville, VA 24382  
276.228.3191

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