








THE BLUE COLLAR VIRTUAL TRADE SCHOOL

CURRENT CATALOG - Electrical

COURSE	INDUSTRY	TYPE	CODE	DESCRIPTION
<p>Fundamental Electrical Concepts</p> 	Electrical	Video	ELEC101	Understand basic electrical circuit concepts, their origins as well as the commonalities between them.
<p>Electrical Panels: Components and Safety</p> 	Electrical	Video	ELEC102	Learn about the major components of electrical panels and safety procedures to follow when working with them.
<p>Electrical Safety</p> 	Electrical	Video	ELEC103	Learn about OSHA safety standards, the dangers of electrical work and their effects on the body as well as safe practices and equipment to wear to prevent injury.
<p>Intro to Electrical Code</p> 	Electrical	Video	ELEC104	Learn about the National Electrical Code and how to apply the room specific guidelines to your work.
<p>Power Distribution, Delta, and Wye Systems</p> 	Electrical	Video	ELEC105	Learn about power distribution, transformers as well as three phase power with its two types: Wye and Delta.

COURSE	INDUSTRY	TYPE	CODE	DESCRIPTION
Electrical Tools 	Electrical	Video	ELEC106	This course presents three tools frequently used by electrical and HVAC technicians and facilities maintenance professionals- multimeter, non-contact voltage tester, and receptacle tester.
Wire Types and Sizes 	Electrical	Video	ELEC107	This course lays out everything you need to know about wires and conductors to be successful in the electrical industry. The different sizes and structures of wires as well as code designations will be covered.
AC Power 	Electrical	Video	ELEC108	This course begins with an introduction to AC electricity, focusing on single-phase power. Next, there is a discussion of AC waveform. The course concludes with lessons on generating single-phase and three-phase alternating current.
Introduction to Electrical Circuits 	Electrical	Video	ELEC109	An electrical plan for a room or house can look like a super complicated maze of lines and symbols! By the end of the course, you'll be comfortable reading complex electrical plans and will have an appreciation for the variety of ways room circuits can be designed.
Ampacity and Wire Sizing 	Electrical	Video	ELEC110	Learn how the maximum amount of current is measured for a conductor.
Electrical Devices 	Electrical	Video	ELEC111	Learn about the devices that facilitate electrical flow.

COURSE	INDUSTRY	TYPE	CODE	DESCRIPTION
Lockout/Tagout  ELEC112 Beginner	Electrical	Video	ELEC112	The course begins with the definition and purpose of lockout/tagout procedures, followed by employee roles. Hazardous energies is included, specifically primary, secondary, single, and multiple energy sources, identifying all energy sources during lockout/tagout procedures, concluding with eight practical steps for an effective program.
How To Use a Multimeter  ELEC113 Beginner	Electrical	Sim	ELEC113	This course covers each of the common settings on a multimeter such as voltage, resistance, amperage, diodes, and capacitance. It includes video demonstrations from your instructor Tim Smith and a virtual lab simulation where you can use a multimeter to test your skills.
Diagnosing Circuits: Simple Lighting & Receptacles  ELEC201 Intermediate	Electrical	Sim	ELEC201	Get a hands-on learning experience on how to diagnose and repair lighting circuits and receptacles.
Diagnosing Circuits: Lighting  ELEC202 Intermediate	Electrical	Sim	ELEC202	This course introduces multi-location light control to 3-Way expand your skills and knowledge of electrical circuits and diagnosing faults.
Light Commercial Electrical: Apartment Facilities  ELEC205 Intermediate	Electrical	Sim	ELEC205	This course simulates maintenance scenarios in three contexts in an apartment environment: a rental office, a fitness center, and a parking lot.
Service Business Basics  BUSINESS 101 WEBINAR	Business Skills for the Trades	Webinar	Business 101	Experience a day in the life of service and maintenance techs who work in the home service trades.

COURSE	INDUSTRY	TYPE	CODE	DESCRIPTION
Flat Pricing vs. Time & Materials Pricing  BUSINESS 102 WEBINAR	Business Skills for the Trades	Webinar	Business102	Learn why home service businesses charge the prices they charge and how to explain pricing to homeowners.
The importance of Maintenance Plans  BUSINESS 103 WEBINAR	Business Skills for the Trades	Webinar	Business103	Learn why homeowners should maintain their HVAC, plumbing and electrical equipment every year. Learn how to present customers with this option and build your in-home selling skills.
The Art of Asking Questions  BUSINESS 104 WEBINAR	Business Skills for the Trades	Webinar	Business104	Learn why asking questions and listening are the keys to being a successful home service technician.
Basic Personal Finance Planning  BUSINESS 105 WEBINAR	Business Skills for the Trades	Webinar	Business105	Career choices build the future for you and your family. This course gives you a path to plan for success and your future retirement.
Home Service Q & A  BUSINESS 106 WEBINAR	Business Skills for the Trades	Webinar	Business106	What questions do you have before you begin your new career in the home service industry?