

The Drake Advantage

Students who attend Drake State Technical College will receive a quality education utilizing a combination of traditional lecture style classes, computer labs as well as hands on experience in our on-site training facilities. Class sizes are typically much smaller than other area institutions of higher education allowing for more one-on-one faculty-student interaction. When we say "Our Graduates Work", we stand behind a commitment to provide the educational opportunities to prepare our students for immediate entry into the workforce.

Getting Started at Drake State

If this is the program you select to pursue at Drake State, getting started is easy.

- **Complete an Application for Admission** and submit to the Admissions Office - Building E.
- Take the **COMPASS Entrance Exam (Room E-5)**. Testing will take approximately one hour.
- **Complete the Free Application for Federal Student Aid (FAFSA)** online @ [www.http://studentaid.ed.gov](http://studentaid.ed.gov).
- **Attend the New Student Orientation** session held prior to the first day of Regular Registration each semester. This session is designed to provide an overview of the College and the registration process. An academic advisor will help interpret assessment scores.
- **Register for classes** with an advisor.
- **Pay Remaining Fees** in the Business Office - Building A to complete the registration process.

This brochure serves as basic information for those interested in the programs outlined within. For an all-inclusive list of classes and required course numbers, the J.F. Drake State Student Catalog provides the "official" requirements for graduation as outlined by the Alabama Department of Postsecondary Education. A catalog is available from the Admissions Office or online @ www.drakestate.edu.

For specific questions about this program contact Christine Davis at 256.551.3139 or christine.davis@drakestate.edu.

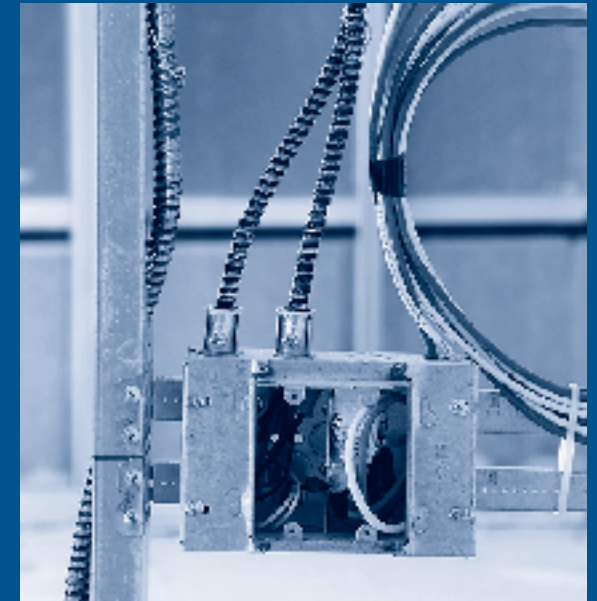


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**Council on Occupational Education
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ELECTRICAL TECHNOLOGY

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Program Description

The Electrical Technology Program is a curriculum designed to teach courses in basic electricity, solid state devices, basic wiring, transformers, fluid power, national electric code, motor controls, programmable logic controls, ac/dc drives, industrial robotics, technical communications and mathematics. The course is designed not only for training beginners, but also for training electricians currently employed in the field.

Career Opportunities

Graduates of the Electrical Program may become employed as an Industrial Electrician, Control Technician, Industrial Electrical Maintenance Technician, Instrumentation Technician, PLC Programmer or Industrial Electrical Inspector.

Expected Earnings/Salary

Earnings for Electricians as reported by the 2008-2009 Occupational Outlook Handbook are as follows:

Median hourly earnings of \$20.97

The middle 50 percent earn between \$16.07 and \$27.71 hourly

The highest 10 percent earn more than \$34.95 an hour

Skills Needed

Successful Electricians are in good physical condition; have above average agility and dexterity and possess above average color vision in order to identify electrical wires. It is also beneficial for electricians working in the construction field to have a basic knowledge of Spanish.

Types of Programs Offered

There are three certificate programs and a diploma offered in the Electrical Technology Program:

Career Skills Certificate – Residential Electricity & Wiring

Career Skills Certificate – Electrical Controls

Career Entry Certificate – Electrical Technology

Diploma – Electrical Technology

The credits of either Career Skills Certificate may currently be applied towards the attainment of the Career Entry Certificate in Electrical Technology.

Courses for Career Skills Certificate – Residential Electricity & Wiring

Areas I-IV are general education courses. For exact courses and credit hours required see the Drake State Catalog.

Area I English/Communications

Area III Natural Sciences/Math/Computer Science

Area VI Core/Technical Concentration
(*sample topics listed below*)

DC Fundamentals

AC Fundamentals

Residential Wiring Methods I & II

Commercial/Industrial Wiring

National Electric Code

Additional requirements include 1 credit hour for Orientation, 1 credit hour for Workplace Skills Preparation and a non-credit entry for Graduation.

Total Credit Hours Required: 29

Courses for Career Skills Certificate – Electrical Controls

Areas I-IV are general education courses. For exact courses and credit hours required see the Drake State Catalog.

Area I English/Communications

Area III Natural Sciences/Math/Computer Science

Area IV Core/Technical Concentration
(*sample topics listed below*)

DC Fundamentals

AC Fundamentals

Motor Control

National Electric Code

Programmable Controls

Additional requirements include 1 credit hour for Orientation, 1 credit hour for Workplace Skills Preparation and a non-credit entry for Graduation.

Credit Hours Required: 29

Courses for Career Entry Certificate – Electrical Technology

Areas I-IV are general education courses. For exact courses and credit hours required see the Drake State Catalog.

Area I Basic English

Area II Humanities/Fine Arts

Area III Natural Sciences/Math/Computer Science

Area VI Core/Technical Concentration
(*sample topics listed below*)

DC Fundamentals

AC Fundamentals

AC/DC Machines

Residential Wiring Methods I & II

Commercial/Industrial Wiring

Motor Control

Industrial Equipment

Fluid Power Systems

Industrial Robotics

Robot Maintenance & Troubleshooting

National Electric Code

Programmable Controls

Preventative Maintenance

Additional requirements include 1 credit hour for Orientation, 1 credit hour for Workplace Skills Preparation and a non-credit entry for Graduation.

Credit Hours Required: 59

Diploma – Electrical Technology

Areas I-IV are general education courses. For exact courses and credit hours required see the Drake State Catalog.

Area I General Education

Area II Core Education

Area III Math/Computer Science

Area VI Core/Technical Concentration

AC/DC Machines

Residential Wiring Methods I & II

Commercial/Industrial Wiring

Motor Controls

Industrial Equipment

Fluid Power Systems

National Electric Code

Programmable Controls

Preventative Maintenance

AC/DC Fundamentals

Electronics for Electricians

Journeyman-MAS Prep Exam

Special Topics

Additional requirements include 1 credit hour for Orientation and a non-credit entry for Graduation.

Approximate Credit Hours Required: 61