



# Atlantic Technical College

## Electricity 1

### Program Syllabus 2025-2026



**Instructor Name:** Mr. Dominic Cicale  
**Department Name:** Architecture & Construction  
**Office/Classroom Location:** Building 12, Room 225A  
**Phone Number:** 754-321-5100  
**Email Address:** dominic.cicale@browardschools.com

**Instructor Office Hours (M-F):**  
1:50pm-3:50pm  
(By appointment only)

**Student Hours:**  
Monday – Friday  
7:05AM 1:50PM

Lunch: 10:10AM 10:50AM

NOTE: All students are expected to be present during their entire scheduled class time(s). All classroom breaks will occur on an “as needed” basis. The instructor’s cell phone clock will serve as the official time.

**Program Name:** Carpentry  
**Career Cluster:** Architecture and Construction

#### OCP

A

B

#### Course Names

BCV0603/Electrician Helper

BCV0640/Residential Electrician

#### Course Length

300 Hours

450 Hours

750 Total Hours (*Full-time including summer*)

#### **ATTENDANCE:**

For Postsecondary (Adult) Students: Excessive absences or tardies can lead to involuntary withdrawal from the program. Reentry will require referral to the program counselor or administrator.

To minimize class disruption, if a student is out of class for an excessive period as identified by the instructor, that student will be marked absent for the day for attendance and grading purposes.

Additional school attendance rules are as follows:

- A student must be withdrawn after being absent for six (6) consecutive days.
- Two (2) additional absences may be allowed under certain circumstances with appropriate documentation.
- For Post-Secondary students there are no excused absences.

Please refer to the Student Handbook for postsecondary students. [ATC Student Handbook](#)

**Required Book(s) and/or Online Access Available for purchase at the ATC Bookstore:**

- Electrical Wiring Residential 2020 Edition  
ISBN# 9780357366479
- AND-
- National Electrical Code, 2020 Edition  
ISBN# 9781455922970
- OR-
- National Electric Code Handbook, 2020 Edition ISBN# 9781455922901  
NFPA 70, National Electrical Code (NEC) Self-Adhesive Index Tabs

**Classroom Materials**

- **Required Items**
  1. Student ID (worn at all times while on campus)
  2. Close toe shoes and T-shirt with sleeves
  3. 2017 NEC
  4. Electrical Resident Workbook 19E
  5. Pencil(s) w/ eraser
  6. Pen (Blue or Black Ink)
  7. 12" ruler
  8. Calculator-TI-30XA
  9. Highlights (at least two colors)
  10. Color Pencils or Pens (at least four colors – Black, Red, Blue, Green)
  11. Notebook or Spiral book with Paper
- **Optional Items**
  1. Architects Scale Ruler (Would take care of 12" Rulers)
  2. Tom Henry Key Word Index
  3. NEC Tabs 5. Ugly's Reference Guide

**Required Materials/Supplies Purchased from ATC Bookstore:**

- Safety Glasses
- See the columns Below

**Lab Materials**

- **Required (BCV0603) Electrician Helper Close Toe Shoes**
  1. Safety Glasses
  2. Pencil
  3. Tool Pouch or Bag
  4. 9" Side Cutters
  5. 4" X 1/4" Straight Screwdriver
  6. 6" X 3/16" Straight Screwdriver
  7. 4" Phillips Screwdriver
  8. Wire Stripper
  9. Razor Knife 11.1/4" & 5/16" Nut Driver

- **Suggested Materials/ Supplies (BCV0640) Residential Technician**

1. Voltage Tester
2. 8" Needle Nose Plier
3. Diagonal Cutter (Dikes)
4. Grove Joint Plier (Channel Locks)
5. 25' Tape Measure
6. Torpedo Level, magnetic
7. Hacksaw
8. Allen Key (folding type) 3/16" – 3/8

- **Optional Tools**

1. Hammer (min. 18oz.)
2. Scratch Awl
3. Screw Gun (not impact driver)
4. Plug-In Polarity Tester w/GFCI test function
5. Digital Multi-Meter (would take care of voltage tester also)
6. Fuse Puller

**Adult students:** All required books and some materials supplies can be purchased from the school bookstore. Stop by during operational hours for pricing and purchasing information. All other required materials and retail supplies that are not available at the bookstore need to be purchased elsewhere. All required books and materials retail supplies need to be obtained prior to the program start.

**Grading Scale:**

<b>A</b>	<b>90-100%</b>
<b>B</b>	<b>80-89%</b>
<b>C</b>	<b>70-79%</b>
<b>D</b>	<b>60-69%</b>
<b>F</b>	<b>0-59%</b>
<b>I</b>	<b>Incomplete</b>

**Additional Program Specific Criteria:**

**Grading Categories**

Quizzes/Tests	30%
Employability	40%
Lab/Projects	30%

**View your grades:**

Grades can be viewed online by following the directions below.

1. Go to <https://Browardfocus.com> (access FOCUS using Chrome, Firefox or Safari)
2. student ID which is on your student schedule.
3. Password- student's date of birth formatted as PMM/DD/YYYY.  
Capital P- 2 digits for the month- 2 digits for the day- 4 digits for the year.

**Classroom/ Lab Rules/ Employability Skills:**

1. Must be on time for class and when coming back from lunch.
2. All electronic devices must be silent and out of sight during instructional time. This includes cell phones, earbuds, smartwatches, headphones, mp3 players, etc. The school and/or teacher are not responsible for lost or stolen devices/personal belongings of any kind.
3. Computer use must be according to Broward County School policy.
4. Safety glasses and closed toe shoes are to be worn in the lab/classroom at all times.
5. Respect your fellow classmates and Instructor at all times.
6. Adhere to all Broward County School Policies.

**Industry Credentials:**

- Occupational Safety and Health Administration (OSHA) 10 Hour Construction Safety Outreach Course - \$40
- USB Drive - \$6
- HVAC Excellence in Electricity- \$15

**Outstanding Student Recognition Information:**

A gold seal will be applied to a Program Completion Certificate or an Applied Technology Diploma if the student has earned a 3.5 GPA or higher in their Career and Technical Education (CTE) classes.

**Course Number:** BCV0603

**Course Name:** Electrician Helper

**Occupational Completion Point:** A

**Intended Outcomes:**

- 1.0 - Explain the importance of health, safety, environmental stewardship and related regulatory compliance.
- 2.0 - Identify, use and maintain the tools and accessories used in the electrical industry.
- 3.0 - Demonstrate an understanding of basic Direct-Current (DC) electrical-circuit skills.
- 4.0 - Apply mathematics knowledge and skills to electricity.
- 5.0 - Demonstrate an understanding of basic electricity.
- 6.0 - Read and interpret basic electric codes.
- 7.0 - Apply mathematics knowledge and skills to electricity.
- 8.0 - Demonstrate further understanding of electricity.
- 9.0 - Demonstrate science knowledge and skills related to electrical principles.

**Course Number:** BCV0640

**Course Name:** Residential Electrician

**Occupational Completion Point:** B

**Intended Outcome:**

- 10.0 - Demonstrate proficiency in electrical math problems and skills.
- 11.0 - Demonstrate Alternating-Current (AC) circuit skills.
- 12.0 - Explain the importance of employability and entrepreneurship skills.
- 13.0 - Install residential wiring.
- 14.0 - Install residential wiring systems.

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