

## ***Industrial Maintenance Technology (Electrical and Instrumentation Concentration) Technical Diploma***

This program is designed to prepare the student to work efficiently as an Industrial Maintenance Electrical and Instrumentation Technician. Industrial Maintenance Electrical and Instrumentation Technicians are needed in every industry that uses machinery, from automotive assembly plants to computer manufacturers, where they repair, maintain, calibrate, install, and dismantle electrical instruments and equipment. Every time a new appliance leaves a factory or a new car rolls off the line, a skilled electrical and instrumentation technician played a role in producing it. This program covers four levels of training based on curriculum developed by the National Center for Construction Education and Research (NCCER). Students who successfully complete the program will be nationally certified by NCCER.

To receive this certificate, the student must:

- Earn a “C” or better in all coursework.
- Complete the coursework listed below.

### **PROGRAM OF STUDY**

#### **First Semester**

		<b>Credit Hours</b>
CORE 1003	Introduction to Craft Skills	3
ITEI 1133	Training I Electrical and Instrumentation	3
ITEI 1143	Training II Electrical and Instrumentation	3
ITEI 1153	Training III Electrical and Instrumentation	3

**Total credits for semester:**

**Credential earned: Industrial Maintenance General Technician, Technical Competency Area (TCA) 12**

#### **Second Semester**

		<b>Credit Hours</b>
ITEI 1513	Safety, Codes, Electrical Theory	3
ITEI 1523	Alternating Current and Meters	3
ITEI 1533	Mass Flow Methods	3
ITEI 1543	Tubing, Drawing, and Conductors	3

**Total Credits for Semester:**

**Credential earned: Level 2 Technician, Electrical and Instrumentation (24 credit hours) (includes Industrial Maintenance General Technician TCA) 12**

#### **Third Semester**

		<b>Credit Hours</b>
ITEI 1553	Valves, Converters, and Controllers	3
ITEI 1563	Electrical Devices	3
ITEI 1613	Grounding and Bending Conduit	3
ITEI 1623	Fluids and Motor-Operated Valves	3

**Total Credits for Semester: 12**

#### **Fourth Semester**

		<b>Credit Hours</b>
ITEI 1633	Current, Output, Calibration	3
ITEI 1643	Control Valves and Loops	3
ITEI 1653	Programmable Logic Controllers	3

**Total Credits for Semester: 9**

**Total Credits for Technical Diploma:**

**Credential earned: Level 4 Electrical and Instrumentation Technician (includes TCA, CTS, and third and fourth semester courses) 45**

For more information, contact the Division of Technical Education Westside Campus at (225) 687-5500. Course descriptions can be found in the BRCC College Catalog at [www.mybrcc.edu](http://www.mybrcc.edu)