

IDFC – Industrial Fundamentals

IDFC 1000 - Principles of Electricity I

4.000 Credits

Provides an in-depth study of the health and safety practices required for maintenance of industrial, commercial, and home electrically operated equipment. Topics include introduction to OSHA regulations; safety tools, equipment, and procedures; and first aid and cardiopulmonary resuscitation.

IDFC 1005 - Principles of Electricity II

5.000 Credits

This course introduces the theory and application of varying sine wave voltages and current and solid state devices. Topics include magnetism, AC wave generation, AC test equipment, inductance, capacitance, basic transformers, an introduction to semiconductor fundamentals, diode applications, basic transistor fundamentals, basic amplifiers, and semiconductor switching devices.

IDFC 1007 - Industrial Safety Procedures

2.000 Credits

Provides an in-depth study of the health and safety practices required for maintenance of industrial, commercial, and home electrically operated equipment. Topics include introduction to OSHA regulations; safety tools, equipment, and procedures; and first aid and cardiopulmonary resuscitation.

IDFC 1011 - Direct Current I

3.000 Credits

Introduces direct current (DC) concepts and applications. Topics include electrical principles and laws; DC test equipment; series, parallel, and simple combination circuits; and laboratory procedures and safety practices.

IDFC 1012 - Alternating Current I

3.000 Credits

Introduces the theory and application of varying sine wave voltages and current. Topics include magnetism, AC wave generation, AC test equipment, inductance, capacitance, and basic transformers.