![italtec Technical Training Systems logo]

Company with Quality Management System
Certified by DNV = ISO 9001/2015 =

Power Supply Trainer

ALL ELECTRONIC CIRCUITS TRAINERS

- **v** Basic Electronic Circuits Trainer

- **v** Basic Electricity and Electronic Trainer

- **v** Digital Logic Circuits Trainer

- **v** Advanced Digital Logic Circuits Trainer

- **v** Electronic Circuits Trainer

- **v** Practical Electronic Circuits Trainer

- **v** **Power Supply Circuits Trainer**

- **v** Industrial Electronics Circuits Trainer

IE2050

DESCRIPTION

Curriculum Outlines:

· Design and implementation of Rectifier Circuits .

· Design and implementation of Regulator DC Circuits.

· Design and implementation of Inverter Circuits.

· Design and impmemtation of DC-DC boots and buck regulator circuits

· Design and implementation of Switch Buck-boost Regulator Circuits.

· Design and implementation of Power Supply Application Circuits.

FEATURES

Curriculum Objectives:

· Understanding the basic theory and application of power supply circuits.

· Suitable for both engineer and the relative electronic student.

CE

	1 Rectifier	**Rectifier Circuits** Experiment 1: Rectifier circuits e Characteristic Curve Measurement Experiment 2: Filter circuits Experiment 4: Half-wave voltage quadrupler Experiment 5: Precision rectifier
	2 Regulator DC	**Regulator DC Circuits** Experiment 1: 7805 regulator characteristics Experiment 2: 7805 expanded voltage Experiment 3: 7805 variable current regulator Experiment 4: 7805 current source Experiment 5: 7905 regulator characteristics Experiment 6: 7905 expanded voltage Experiment 7: 7905 variable current regulator Experiment 8: 7905 current source
	3 Variable Regulator	**Variable Regulator Circuits** Experiment 1: Zener Breakdown C Experiment 1: Zener diode regulator Experiment 2: 7805 variable regulator Experiment 3: 1117 variable regulator Experiment 4: BJT variable regulator Experiment 5: 317 variable regulator Experiment 6: 337 variable regulator
	4 Inverter Circuits	**Inverter Circuits** Experiment 1: 7805 inverter circuit Experiment 2: 555 inverter circuit Experiment 3: 34063 inverter circuit Experiment 4: Astable multivibrator inverter circuit Experiment 5: Wien bridge inverter circuit
	5 DC-DC Boost and Buck	**DC-DC Boost and Buck Circuits** Experiment 1: 34063 boost circuit Experiment 2: 3775 boost circuit Experiment 3: 34063 buck circuit Experiment 4: 3775 buck circuit

Power Supply Circuits Trainer

![italtec logo] **italtec**
Technical Training Systems
Company with Quality Management System
Certified by DNV = ISO 9001/2015 =

IE2050

DESCRIPTION

Curriculum Outlines:

· Design and implementation of Rectifier Circuits .

· Design and implementation of Regulator DC Circuits.

· Design and implementation of Inverter Circuits.

· Design and impmemtation of DC-DC boots and buck regulator circuits

· Design and implementation of Switch Buck-boost Regulator Circuits.

· Design and implementation of Power Supply Application Circuits.

FEATURES

Curriculum Objectives:

· Understanding the basic theory and application of power supply circuits.
· Suitable for both engineer and the relative electronic student.

CE

Switch Buck-boost Regulator Experiment 1: Low power buck-boost regulator circuit Experiment 2: Low power LNK625PG buck regulator circuit Experiment 3: Low power HIP5600 buck regulator circuit	**6** **Switch Buck-boost Regulator Circuits**	
Power Supply Application Experiment 1: PWM light controller Experiment 2: 4-state remote controller (The remote controller can be operated by switching ON/OFF) Experiment 3: LED words circuit (The LED display of the characters can be dimmed or lighted by following the experiments 1 and 2)	**7** **Power Supply Application Circuits**	