



# NOAHTECH COMPUTER REPAIRING AND SERVICES

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## Basic Electronics Troubleshooting and Repair

### Topics Covered

Course Code BEC01

Course Length: 3 days

#### Day 1

9.00am - 10.45am	Introduction On Electronics, Safety First, Fixing Fluorescent Lamp
10.45am – 11.00am	Tea Break
11.00am – 12.00pm	Explanation on Ohm' Law, How to use analog and digital meter to test on AC/DC voltage.
12.00pm to 1.00pm	Understanding Resistor function, Color Coding and Calculation, The importance of series and parallel resistors. How to check the value of resistors using Digital meter.
1.00pm- 2.00pm	Lunch Time
2.00pm- 2.30pm	How to find faulty resistors in circuit board
2.30pm – 3.00pm	Understanding Variable resistors/Preset function and coding and how to test this component
3.00pm- 3.30pm	Understanding Fuse function and coding and how to test this component
3.30pm-3.45pm	Tea break
3.45pm-4.15pm	Understanding LED function and how to test this component
4.15pm- 5.00pm	Questions and Answers base on a circuit board given to participants

## **Day 2**

9.00am- 9.45am	Understanding Linear Transformer function and how to test this device
9.45am- 10.45am	Understanding Diodes, Schottky diodes and Bridge Rectifier function, part number and how to test these components.
10.45am-11.00am	Tea Break
11.00am- 11.30am	How to read Semiconductor data book and find the right substitution part number
11.30am- 12.00pm	Understanding Zener diodes function, part number and how to test this component.
12.00pm -1.00pm	Understanding capacitors function, coding and the right way to test it with Digital Capacitance and Blue ESR meter.
1.00pm-2.00pm	Lunch Time
2.00pm- 2.20pm	Understanding Coil/Inductors function and how to test this component
2.20pm -2.50pm	Understanding Integrated Circuit and Voltage Regulator (IC) function, part number and how to test this component
2.50pm-3.30pm	How to design and build your own Linear Power Supply.
3.30pm-3.45pm	Tea Break
3.45pm- 5.00pm	Fixing a linear power supply project kit. (This will make the participant have hands-on soldering skill and understand how a power supply work and troubleshoot it).

### **Day 3**

9.00am- 9.45am	Understanding Bipolar Junction Transistor (NPN/PNP) function, part number (European and Japanese Code) and how to test this component
9.45am- 10.45am	Understanding Horizontal Output Transistor function, part number and how to test this component.
10.45am-11.00am	Tea Break
11.00am- 11.30am	Understanding Darlington Transistor function, part number and how to test this component.
11.30am- 12.30pm	Understanding Mosfet (P and N channel) function, part number and how to test this component
12.30pm -1.00pm	Secret ways to find components datasheet from the search engine like Google and Yahoo
1.00pm-2.00pm	Lunch Time
2.00pm- 3.00pm	Fixing another electronics project kit (To train participants on soldering and desoldering skill, identify components skill, identify components part numbers, how to check them and accomplish a project given. This will make them have confident after the course.
3.00pm -4.45pm	Troubleshooting and repairing real boards that have faulty components in it. (To test a participant how well they know about electronic troubleshooting. By now, the participant will be able to check all the basic electronic components on electronic circuit board.
4.45pm- 5.00pm	Questions/Answers and Presentation Certificate Of Attendance

For more information please contact us at

<http://www.noahtechelectronicstraining.com/contact-us>