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NOAHTECH COMPUTER REPAIRING AND SERVICES

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MicroElectronics Troubleshooting and Repair and Micro-Soldering Course



Topics Covered

DAY 1

9.00am -9.30am	How to Use Binocular/Trinocular Microscope (With 10" LCD Monitor) Like A Professional On Micro Circuit Boards
9.30am- 10.45am	<ul style="list-style-type: none">-How SMD components work-Understanding Advanced SMD Codes-Learn The Secrets On How to Measure and Test SMD Components with Specialized Test Equipment-How to Use a Micro Tweezers and Other Related SMD Tools to Work On Micro SMD Components
10.45am- 11.00 am	Tea Break

11.00am- 11.30am	<p>Introduction to Micro-soldering</p> <p>-How to Use The Latest High End 4 in 1 Motherboard/ Mainboard /Smart Phone Chip Repair Platform Rework Soldering Station With Air Gun Power Combination Set.</p> <p>- Tips For Maintenance and Cleaning of Soldering Tools and Micro PCB Boards</p>
11.30am – 1.00pm	<p>How To Fix and Solder SMD Components With Various Package Sizes (0805, 0603, 0402, 0201, 01005) Onto PCB Board. You Will Learn the Advanced Micro PCB Soldering Experience In This Hands On Practical Lesson</p> <p>-Techniques to Use Hot Air to Solder Micro SMD Components (We will show you how to properly use your airflow and right temperatures on the Micro Components)</p> <p>-How To Use The Best Solder Paste (with the right melting temperature) for the SMD Micro Soldering job (Leaded and Unleaded)</p>
1.00pm-2.00pm	Lunch Break
2.00pm - 3.30pm	<p>Different PCB Board Types With Micro SMD Components In It (Motherboard/Mainboard and Iphone PCBs) Will Be Given For Soldering, Desoldering, Checking and Testing Purposes (Hands On Practical)</p>
3.30pm to 3.45pm	Tea Break
3.45pm to 4.45pm	<p>How To Repair A Missing , Difficult Joints and Torn PCB Pad On A Micro Circuit Board</p> <p>How To Remove The Hard Dark Epoxy/Glue In Micro Circuit Board</p> <p>How to Make And Secure A Micro Soldering Joint That Can Last For Years</p>
4.45pm to 5.00pm	Question and Answer

DAY 2

9.00am -10.45am	Understanding Micro BGA Reballing and Micro SMD ICs. Many different sizes and types of Micro BGA and SMD ICs in a Micro circuit board will be given for hands on practice . You will also practice on soldering and removing Iphone Micro connectors , charge ports and etc.
10.45am- 11.00am	Tea Break
11.00am – 1.00pm	<p>-Continued With The Hands On Practice On Micro BGA, Micro SMD ICs, Iphone Micro Connectors , Charge Ports Soldering, Desoldering and Reballing</p> <p>-How Nand EMMC Flash Memory Works</p> <p>-How To Program A Nand EMMC Flash Memory IC by Using A Specialized Nand EMMC Flash Programmer</p>
1.00pm - 2.00pm	Lunch Break
2.00pm- 3.15pm	<p>-Understanding of Direct and Semi Short circuit between the VCC line and ground in a Micro circuit board board.</p> <p>-How to use the Voltage and Ampere method to determine if the VCC line is direct or semi short in Micro circuit board board</p> <p>-How to track the direct short circuit easily in a high density components circuit board by using the latest specialized test instrument.</p> <p>-How to safely kill or to remove the short circuit in the Micro PCB board with another latest tester in the market.</p> <p>- Secret method on how to quickly locate even a 20mA or 30mA leakage in a Micro PCBs by using the latest leakage finder in the market.</p>
3.15pm- 3.30pm	Micro Component Sourcing. We will share with you at where you can find spare parts for Micro components.
3.30pm- 3.45pm	Tea Break
3.45pm- 4.30pm	- How to use the latest Handheld Voltage and Current Tracker to easily locate faulty section or components in Micro PCB board

	-Tips to locate critical testing points in Micro circuit board even without the schematic diagrams
4.30pm- 4.50pm	Discover the Ultimate Secret of Step by Step Guide On How To Troubleshoot and Repair All Kinds Of DC Powered Mainboards/Motherboards
4.50pm- 5.00pm	Question and Answer



DAY 3

9.00am – 10.45am	-How Smart Phone Display, Backlight and Touch Screen Circuit Works -How To Replace a Cracked Touch Screen Panel
10.45am to 11.00am	Tea break
11.00am to 11.30am	- How to Safely Open A Micro Device Without Damaging/Breaking The Cover and Internal Circuit Board -How to Accurately Test All Kind of Batteries (Lithium Polymer, Lithium-Ion, Sealed Lead Acid, Nickel Cadmium and

	<p>etc), Including Smart Phone Batteries Using The Latest Battery Tester In The Market</p> <p>-How to Accurately Test Smart Phone Charging Circuit Using The Latest Charging Circuit Tester In The Market</p>
11.30am to 1.00pm	<p>Hands-On Practical Troubleshooting and Repairing on Micro PCBs Circuit Board. Problems in the below will be troubleshoot by students:</p> <ol style="list-style-type: none"> 1) No Power (can't turn On, can't boot up) 2) No Power (can turn On but Can't boot up) 3) No Backlight Display 4) VCC Line Shorted 5) etc
1.00pm- 2.00pm	Lunch Break
2.00pm – 3.30pm	Continued with the Micro PCBs Circuit boards Troubleshooting and Repair
3.30pm – 3.45pm	Tea break
3.45pm to 4.40pm	<p>Continued with the Micro PCBs Circuit boards</p> <p>Note: Once you are able to solve the Micro PCBs circuit board problems with the repair techniques you have learnt, you can actually apply the same repair techniques on all kind of Micro PCBs Circuit boards in the market.</p>
4.40pm to 4.50pm	Question and Answer
4.50pm to 5.00pm	Presentation Of Certificate of Completion

Note: The above contents are subject to change without prior notice

For More Information Please Contact Us at:

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