

SMT ELECTRONICS TRAINING



An ISO 9001:2008 Certified Technical Training Centre

DIRECT CLASS: (7 Days * 1.00 Hrs=7 Hrs)

| CLASS | TOPICS |
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| SESSION-1 | <u>INTRODUCTION</u> 1.Atomic Structure 2. What Is Current? 3. What Is Alternate Current - A.C? 4.Examples Of A.C 5. What Is Direct Current - D.C? 6.Examples Of D.C 7. What Is Voltage? 8.Difference Between A.C & D.C 9.Flow Of Current 10. What Is Conductor? 11. What Is Insulator? 12. What Is Semi Conductor? 13.Types Of Electronics 14.General Components & Symbols |
| SESSION-2 | <u>ELECTRONIC COMPONENTS</u> 1.Types Of Electronics Components 2. What Is Resistor? 3.Resistor Color Coding 4. How To Finding Resistor Value? 5.Resistors In Series & Parallel 6.Types Of Resistor 7.Smt Resistor Identification 8.Smt Resistors Marking Code 9. How To Identify The Smd Resistor Value? 10.How To Check Normal Resistors? 11.How To Check Smd Resistors? 12.Soldering & De-Soldering Of Resistor |
| SESSION-3 | <u>CAPACITOR</u> 1. What Is Capacitor? 2.Electrolytic And Non Electrolytic Capacitors 3. How To Measure Capacitor Value? 4. Smd Capacitor Marking Code And Value? 5. Connectivity Of Capacitor? 6. Types Of Capacitors? 7. How To Find Capacitors Polarity? 8. How To Find Damaged Capacitor? 9. How To Check Capacitor? 10. How To Check Smt Capacitor? 11.Soldering & De Soldering (Normal & Smt Capacitor) |

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| SESSION-4 | <p><u>INDUCTOR & TRANSFORMER</u></p> <ol style="list-style-type: none"> 1. What Is Inductor? 2. Types Of Inductor 3. Inductor Checking Method-Practical 4. What Is Transformer? 5. Types Of Transformer 6. Step-up Transformer 7. Step Down Transformer 8. Multi Output Transformer 9. SMD Transformer 10. How To Check Transformer? 11. Removing & Re Fixing Of Normal Transformer |
| SESSION-5 | <p><u>DIODE</u></p> <ol style="list-style-type: none"> 1. What Is Diode? 2. TYPES OF DIODE <ol style="list-style-type: none"> 1. P.N.Junction Diode or Power Diode 2. Zener Diode 3. Photo diode or Signal Diode 4. Light Emitting Diode (L.E.D) 5. Tunnel Diode 6. Gunn Diode 7. Varactor Diode 3. SMT Diode 4. Diode Function 5. Half Wave Rectifier 6. Full Wave Rectifier Circuit 7. The Full Wave Bridge Rectifier 8. Types Of Power Supply 9. How To Check Diode? 10. Removing & Re Fixing Of Normal Diode |
| SESSION-6 | <p><u>TRANSISTOR</u></p> <ol style="list-style-type: none"> 1. What Is Transistor? 2. Types Of Transistor 3. Bipolar Junction Transistor (B.J.T) 4. B.J.T Vs U.J.T 5. Different Packages Of Transistors 6. Various Types Of SMT Transistors Packages 7. Uni Junction Transistor [Ujt] 8. Mosfet And Its Symbol 9. How Works Mosfet? 10. Different Packages Of Mosfet 11. Multipin Packages Of Mosfet's & Its Internal Diagram 12. Difference Between Pnp/Npn And Mosfet 13. How To Check N & P Channel Mosfet? 14. Checking Of Normal Transistor, Smt Transistor (Npn&Pnp) 15. Removing & Re Fixing Of SMT Transistors |

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| SESSION-7 | <p><u>INTEGRATED CIRCUITS</u></p> <ol style="list-style-type: none"> 1. What Is I.C (Integrated Circuit)? 2. What Is Inside Of Ic? 3. Fabrication Structure Of Ic's 4. Types Of Ic's 5. Various Packages Of I.C <ol style="list-style-type: none"> 1. Sip : Single In-Line Packages 2. Dip : Dual In-Line Packages 3. Qfp: Quad Flat Packages 4. Qfn : Quad-Flat No-Leads 5. Pga : Pin-Grid Arrays 6. Lga : Land Grid Arrays 7. Bga : Ball Grid Array 8. Plcc : Plastic Leaded Chip Carrier 9. Sop :Small Outline Package 6. Example Of Ic Packages 7. Qfp: Quad Flat Packages 8. Bga -Ball Grid Array 9. Various Types Of Electronics Board And Its Ic's Identification 10. Pin Details Of Some I.C (Example) 11. Practic |
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| <p><u>CHIP SYSTEMS</u></p> <p>Old No.107,New No. 194,Ground floor, Lake View Road, West Mambalam, Chennai-33 Tamilnadu, INDIA (Near Postal colony 3rd Street) Phone: 044-2474 3860. Cell : +91-98410 99911, Cell : +91-94440 34246. Email : admin@chipsystems.in</p> | <p><u>CHIP TECHS</u></p> <p>Old No.107,New No. 194,Ground floor, Lake View Road, West Mambalam, Chennai-33 Tamilnadu, INDIA (Near Postal colony 3rd Street) Phone: 044-2474 3860. Cell : +91-98410 99911, Cell : +91-94440 34246. Email : admin@chipsystems.in</p> |
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