

Electric Motor Rewinding & Repair Services

Course Code NARQ40012 –PROCESS: Session Plan

| Day | Session | Subject |
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| 01 | I | Registration & Inauguration |
| | II | About the Institute, rules & regulations of training/institute |
| | III & IV | Micro lab – Ice breaking exercise |
| 02 | I | Achievement Motivation – Confidence building |
| | II | Why self employment – Advantages over wage employment, Entrepreneurship Development – What, Why & How?–(introduction) |
| | III & IV | Entrepreneurial competencies – Importance, explanation with examples, case study for identification of different competencies |
| 03 | I | Problem solving– Explanation through case studies and exercises, Creativity – Creative thinking |
| | II | Time management |
| | III & IV | Risk taking and goal setting - Ring Toss exercise |
| 04 | I | Fundamentals of electrical equipments, electricity, current, voltage & power |
| | II | Safety precautions in electrical repairs |
| | III | Resistance, Conductor, Insulator & Semi-conductor |
| | IV | Tools and equipments for motor rewinding |
| 05 | I | Types of Power Generation |
| | II | Voltage testing procedures |
| | III | Transformer - Bulbar – Circuit breakers |
| | IV | Voltmeter & Ammeter connections – Theory & Practical |
| 06 | I | Series and Parallel Connection – Theory & Practical |
| | II | Assembly switches (MCB, ELCB & TP) |
| | III & IV | IPs & MPs set Panel board wiring – Theory & Practical |
| 07 | I | Magnet – Types of Magnets, poles |
| | II | RPM in motors |
| | III | Tower building – Eradicating dependency syndrome |
| | IV | Types of poles and RPM (2,4,6,8) |
| 08 | I | Working Principles of Poles & Pole system in Electric Motor |
| | II | Dividing Coils in poles |
| | III | Types of RPM |

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| | IV | Number of slot in Motor |
| 09 | I & II | Type of Pitch in different type slot and different type pole |
| | III | ISI Roles of the Motor Rewinding in All Motor |
| 10 | I to III | Preparation of Testing board – Demo and Practical |
| | IV | Fault finding in Testing Board |
| 11 | I | Winding data Theory and Demonstration |
| | II to IV | Table fan winding practical |
| 12 | I | Ceiling fan – Theory |
| | II & IV | Ceiling fan – Practical in winding machine |
| 13 | I to IV | Ceiling fan – Practical continue |
| 14 | I | Experience sharing – Interaction with successful entrepreneur |
| | II | Simple Pole Motor – Theory |
| | III & IV | Simple Pole Motor – Practical |
| 15 | I | Cooler fan – Winding Theory in 24 & 36 Slot |
| | II to III | Cooler fan – Winding Practical |
| | IV | Mid term evaluation test |
| 16 | I to III | Cooler fan – Winding - Practical |
| | IV | Market Survey - Theory |
| 17 | I to IV | Market Survey – Collection of information, field work |
| 18 | I | Market survey – Report writing, presentation, group discussion & analysis |
| | II | Exhaust fan – Theory & Practical |
| | III & IV | Washing Machine – Theory & Practical |
| 19 | I & II | Business game- Boat Building Exercise |
| | III & IV | Universal Motor & Mixer Grinder- Theory & Practical |
| 20 | I | Effective communication skills |
| | II to III | Single Phase Capacitor start motor– Theory & Working Principal of centrifugal switch |
| 21 | I | Costing, pricing – Fixed Cost - Variable Cost, Break even point. Working Capital Management |
| | II to IV | Single Phase Motor – Theory, Practical & Wiring Connection |
| 22 | I to IV | Three phase induction Motor Theory - Practical |
| 23 | I to IV | Induction Motor Double Layer winding 2,4,6,8,10,12 Pole Theory & Practical |

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| 24 | I to IV | Induction Motor Double Layer winding 2,4,6,8,10,12 Pole Practical |
| 25 | I & II | Motors in two poles – in 18 slot and 24 slot |
| | III & IV | Submersible Winding – Practical |
| 26 | I to IV | Submersible Winding – Practical |
| 27 | I & II | Three Phase DOL starter – Theory and Demonstration |
| | III & IV | Star Delta starter Theory & Practical |
| 28 | I | Gauge Combination |
| | II | Capacitor use in V-VAR |
| | III | Capacitor use in Single phase & Three phase Motors |
| | IV | Combination of bearing of different companies, trouble shooting & fault finding |
| 29 | I | Marketing management – 4Ps of marketing, managing the customers |
| | II | Banking–Deposits & advances, lending schemes/Government schemes |
| | III | Business plan/project report preparation |
| | IV | Human Relations |
| 30 | I | Maintenance of records & book keeping – Methodology |
| | II | Launching formalities–Steps in launching of an enterprises Pitfalls and their control |
| | III | Final evaluation test |
| | IV | Feedback & Valedictory |