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aimtechnology.mu

Maintenance and Operation of Single phase & Three phase Motors

**MQA Accredited
Programme
&
HRDC Refundable**

This training course is specifically designed for Maintenance Fitters looking to fulfill a multi-skilling role within their company. While an electrical background is advantageous, it is not a requirement. The programme aims to provide trainees with a sound knowledge of electrical systems within a production environment, enabling them to contribute effectively to plant maintenance under supervision.

Duration: 1.5 months (Part time)
Mode: 12 Sessions of 2 hrs
Day: Monday / Sunday

The programme is structured over 2 stages. The first stage focuses on Single Phase Circuits, covering lighting and socket circuits, cable ratings, and testing for continuity and insulation using recognized instruments, as well as sequence control using relays. The second stage shifts to 3 Phase AC Induction Motors, where we cover principles of operation, methods of control—including DOL, Forward/Reverse, and Star/Delta—reading circuit diagrams, and their interfaces.

The detailed training programme content encompasses foundational topics such as legislation, basic electrical principles, and AC/DC generation. Trainees will engage in practical applications involving lighting circuits, radial and ring circuits, and the use of multimeters. Furthermore, the curriculum includes industrial control topics such as motor control circuits, protective devices, safety switches, proximity detectors, and inverters. A key focus will also be placed on maintenance skills, specifically fault-finding systems and wiring diagram interpretation.

Successful completion of this course serves as a foundational step toward achieving career progression at a later stage while immediately enhancing a trainee's ability to support company maintenance operations.