

MODULE : O&M 3

OPERATION AND MAINTENANCE OF HT AND LT MOTORS

COURSE DESCRIPTION:

Introduction

Types of motors; Equivalent circuits; Speed - Torque characteristics; DOL, Star-Delta; Temperature rise and duty cycle (type S1 to S6), Degree of protection.

Protection

HT Motors - Thermal, Stalling, Instantaneous, Negative sequence and Ground fault protection.

LT Motors - Bimetal, Fuse; Setting of Bimetal; Fuse - Relay co-ordination problem.

Testing

Routine maintenance test; Winding resistance, IR, PI, Dielectric Absorption, High- Pot; $\tan \delta$.

Condition Monitoring

IR, PI, Thermo graphic, Vibration analysis