

EXPLOSION PROTECTED MOTORS – INSPECTION AND MAINTENANCE



Course Length (Days)	Taught Hours	Practical Content (%)	Theoretical Content (%)
02	15	50	50

TARGET AUDIENCE

Personnel involved in the inspection and maintenance of explosive protected electrical motors, and where practical competency in the dismantling, re-assembly and testing is required. Delegates should have previously attended hazardous areas courses as the principles of Explosion Protection for EEx'd', EEx'e', EEx'n' or N and EEx'p' will be presented as a refresher.

COURSE OBJECTIVES

To raise the level of competency for personnel in the correct procedures for the overhaul of explosive protected motors and installation. To address the correct practices for carrying out such work in collaboration with the manufacturers procedures for motors and to consider the aspects of Certification.

COURSE CONTENT

Properties of flammable materials. Gas and apparatus grouping. Area and temperature classification. Ingress protection. Standards, Certification and label reading. Principles of Flameproof EEx'd'; Increased Safety EEx'e'; Non-Incendive EEx'n' or N, EEx'p' protection.

Flameproof Ex'd' Motors

Construction, Standards and Codes of Practice. Dismantling, inspection and reassembly. Measurement of flamepaths. Bearing, removal and fitting. Winding, cleaning and drying. Terminal marking. Electrical testing. Thermistors, RTD's. Flamepaths.

Increased Safety Ex'e' Motors

Constructional features, specifically for the elimination of arcs/sparks and excessive surface temperatures. Standards and Codes of Practice. Limitations of use. Selection of overload devices with regard to tE time and Ia/In current ratios.

Non-Incendive (Non-Sparking) EEx'n' or N Motors:

Constructional features. Relevant British Standards and Codes of Practice.

EEx'de' Motors

Specialist features of such motors and terminal arrangements.

Pressurisation EEx'p' Motors

Constructional features. Relevant Standards and Codes of Practice. Applications. Consideration of the BEAMA/AEMT Code of Practice for Repair of motors.

DELIVERY

Teaching aids, apparatus, slides, videos, practical demonstrations and workshop, questionnaires and inspection competency.

CERTIFICATION

ATTS Certificate of Completion.

Minimum Number of Delegates Required per Event

4

Times of Training

08:30 to 17:00

Venue

28B Penjuru Close, #01-06, Singapore 609130.

Special Requirements

Delegates are required to supply their own personal protective safety equipment.

Dates and prices

Please check with course administrator.

Note to Clients: The course will consider the practices set out in BS EN 600 79-19 (IEC) and the BEAMA/AEMT Code of Practice for Repair of Motors.