

EXPLOSION PROTECTED MOTORS - INSPECTION AND MAINTENANCE

Course Code : AT 2004



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

TARGET AUDIENCE

Personnel involved in the inspection and maintenance of explosion protected electrical motors, and where practical competency in the dismantling, re-assembly and testing is required. Delegates should have previously attended hazardous areas courses, although the principles of explosion protection methods Ex'd, Ex'e, Ex'n and Ex'p' will be presented as a refresher.

COURSE OBJECTIVES

To train personnel in the correct procedures for the overhaul of explosion protected motors in accordance with codes of practice & manufacturer's procedures, and to consider the certification aspects.

COURSE CONTENT

General principles including gas grouping, area classification, ignition temperature and ingress protection. Constructional, installation and inspection standards; and equipment marking. Overview of methods of protection flameproof Ex d; increased safety Ex e; non sparking Ex n and pressurisation Ex p.

Flameproof Ex D Motors

Construction, Dismantling, inspection and reassembly. Flamepaths. Measurement of flamepaths. Bearing, removal and fitting. Terminal marking. Electrical insulation testing.

Increased Safety Ex 'e' Motors

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

Ex de Motors

Special features, and terminal arrangements.

Pressurisation Ex p motors

Constructional features. Applications.

DELIVERY

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

CERTIFICATION

ATTS Certificate of Completion.

Minimum Number Of Delegates Required Per Event

6

Times Of Training

08:30 to 17:00

Venue

No. 3, Buroh Street, Singapore 627566

Special Requirements

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

Dates And Prices

Please check with course administrator

Note to Clients : This course will consider the practices set out in BS EN 60079-19 (IEC) and the BEAMA/AEMT Code of Practice for Repair of Motors.