



## **M1.1- Overview on Service and Maintenance Aspects of the SEW Gearbox and Motor**

### SEMINAR DESCRIPTION

The seminar is mainly geared towards mechanical and electrical maintenance staff that service or repair gear motors on a daily basis. Focal points are to give Basic maintenance information with which they can identify the cause of the fault replace the spare parts and ensure correct disassembly and subsequent assembly to reduce the machine downtime.

Why this course?

To have a basic knowledge of SEW product like motor, brake system and gearbox in terms of service and maintenance so that unexpected shut downs can be minimized and further higher productivity can be achieved.

Target group: - **Maintenance and startup engineers and repair staff**

Seminar Objectives : The participants

Knows basic maintenance and repair aspects of SEW motors, brake system and can be able to handle replacement of small parts like oil seal, bearings of SEW gearbox independently.

Can find out the fault, determine the cause of failure and reassembled unit correctly.

Benefits :

Improve Gear motor performance & enhancement of maintenance Knowledge of technical staff , reduce the cost of Ownership and stay competitive in the industry.

Requirements: Service/ Maintenance engineer, qualified technician, Mechanic, electro mechanic or Electrician

Location: SEW Training hall

Duration: 1 day

Language: English / Hindi

Max. No. of participants: 5 to 6

**Note :** We also design product and service training courses to suit individual customer requirements

❖ **Training on SEW AC motors ( in 1<sup>st</sup> half of the day )**

➤ **Theoretical/ Classroom training**

- Identification of Motor designation
- Study of Pinion spigot and bearings size w.r.t frame sizes
- Short overview on Insulation classes & IP enclosures
- Information on SEW brake control system
- Information on SEW brake maintenance kit
- Information on SEW brake and without brake motor repair kit

➤ **Practical/ Shop floor training**

- Motor & brake testing parameters
- Practical training on only disassembly of with brake motor
- Adjustment of brake air gape
- Changing of brake disc, brake torque etc

❖ **Training on SEW Gearboxes ( in 2<sup>nd</sup> half of the day )**

➤ **Theoretical/ Classroom training**

- Study of different types of mounting positions of the Gearbox
- Importance of Breather valve of the gearbox
- Importance of lubrication and recommended lubricants for SEW drives
- Lubrication schedule and fill quantities, checking of oil level
- Nameplate study of SEW units
- Tools requirement to service SEW motor & gearbox
- Information on SEW Gearbox Seal and maintenance kit

➤ **Practical/ Shop floor training**

- Practical training on only disassembly of any one type of gearbox out of R,S,F,K type depending upon customer's choice.
- Practical on how to change & check lubrication oil , oilseal bearings etc..
- Selecting the spare parts from the part list for both Gearbox & Motor