

MOTOR BASICS SEMINAR

Thursday, January 29, 2026



Presented by: Local 399 and



Topics

I. Basic Principles of Electric Motors

- Magnetism, Electricity, Work/ Power, AC & DC current

II. Motor Construction

- Rotor, Stator, End Bells, Bearings, Insulation, Enclosures, Name Plate

III. AC Induction Motors

- Single and Three phase—Shaded Pole, PSC, Split Phase, Capacitor, Start, ECM

IV. Selecting the proper motor for the job

- How to determine which motor to use.

V. Motor Replacement - how to identify and replace a motor without a nameplate

- Determining factors

VI. On-Line Resources

- Cross Reference, additional technical information, drawings and more

VII. Motor troubleshooting guide and installation checklist

- Handy card for service techs to keep in their tool box, van or pocket

VIII. Questions and Answers

Date: Thursday, January 29, 2026

Time: - Morning Session

Check-in: 8:30 a.m.

Seminar: 9:00 a.m.- 12:00 p.m.

Time: - Afternoon Session

Check-in: 3:30 p.m.

Seminar: 4:00 p.m.—7: 00 p.m.

Place:

IUOE Local 399 Office and Training Center

2260 S. Grove Street

Chicago, IL 60616 Parking Available

Class Fee:

Contributing Member: No Fee

Non-Contributing Member Fee: \$50

Non-Member Fee: \$100

Any Questions Contact: Education Department at 312-372-9870 Ext. 4000

Seating is Limited, Pre-Registration is Required

Download Registration form at www.iuoe399.org