



# MOTOR BASICS SEMINAR

Wednesday, April 17, 2024 (a.m.)

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**

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**Date:** Wednesday, April 17, 2024

**Time:**

Check-in: 8:30 a.m.

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

***MORNING SESSION ONLY***

**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](http://www.iuoe399.org)