

## Process Training Unit

# Electromagnetic Flowmeters Fundamentals

### Course Information

Gain expertise in the fundamentals of EMF technology.

Electromagnetic flowmeters are among the most widely used flow technologies in industrial process measurement. This one-day course provides a practical, application-focused introduction to EMF operation, design, installation, and troubleshooting.

Whether you're new to flow measurement or looking to sharpen your skills, this course delivers the knowledge you need to confidently specify, install, and maintain electromagnetic flowmeters in demanding process environments.

### Topics Covered

- Signal generation: magnetic fields, electrodes, conductive fluids
- Fluid conductivity and suitability
- EMF construction: coils, liners, electrodes, transmitters, grounding
- Empty Pipe Detection and reference electrodes
- Magmeter benefits
- Limitations and usage boundaries
- Installation and grounding best practices
- Common problems: coating, buildup, noise, signal instability
- Troubleshooting for dependable performance

### Event Details

**April 23, 2026**

3838 Clay Ave SW  
Grand Rapids, MI 49548

8:00am - 5:00pm

Lunch provided

### Cost:

\$800 per person



### Registration

To register please scan the QR code or visit: [keinc.info/electromagnetic](http://keinc.info/electromagnetic)  
Space is limited and registration is required.

