

# Locate Management Institute Inc.

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## ALL104 Magnetic Locator Operation

**Course Overview:** This online magnetic locator operation course (approximately 2 hours) develops knowledge and skills associated with detecting ferrous (magnetic) objects. The course teaches basic magnetism concepts, magnetic field detection, magnetic locator operation, and advanced solutions for abnormal operating conditions (AOCs).

This e-learning course, developed with input from industry subject matter experts, utilizes photographs, computer models and videos, narration, and activities to enhance the student's learning experience.

Included in this course: Online quizzes and a final exam. Certificate and wallet card is issued upon successful completion.

### Objective 1 – Magnetic Fields and Magnetic Locating

- Theory and sensing magnetic fields
- Magnetic receiver components, controls, and sensitivity
- Limitations of magnetic receivers
- Verifying target objects

### Objective 2 – Magnetic Receiver Operation

- Preparing to locate a target object
- Avoiding potential signal interference
- Search patterns and pinpointing

### Objective 3 – Identifying and Managing the Effects of Magnetic Fields

- Magnetic field distortions and unwanted signals
- False peaks

### Objective 4 – Procedures to Detect Common Objects

- Survey pins, water valves, test well covers, culverts, magnetic markers
- Obscured objects

### Objective 5 – Procedures to Detect Challenging Objects

- Pipe termination, pipe fittings
- Steel drums, buried well casings
- Combined scanning, pinpoint, and sweeping patterns

