



## Utilize Your Data to Improve Your Equipment Operation.

This course provides a deeper dive into the applications of reciprocating compressor analysis data. Advanced topics to be covered include gas properties, compression theory, pulsation and Resonance, cylinder stretch, vibration signatures for reciprocating compressors, and Operational Deflection Shape (ODS) testing. Through case histories and class participation, attendees will learn how to apply the analysis results to everyday compressor operations.

During the class, attendees will also benefit from guest speakers – Allied Reliability Subject Matter Experts who will share their knowledge of new equipment and technologies relevant to the course topics and equipment reliability, including the latest design trends of compressor components such as pressure packing, rings, rider bands, and valves and compressor lubrication (oil types, divider block, pump-to-point lubricators).

### YOU WILL LEARN:

- Review of Basic Compressor Operation
- Pressure Volume (PV) characteristics
- Gas Properties and Compressor Theory
- Economic indicators
- Vibration Signatures
- Analysis rules of thumbs
- Advanced Technologies: Motion Amplification and Operations Deflection Shapes
- How to apply analysis results



*RMIC® Approved Course*

### TARGET AUDIENCE:

- Engineers
- In-house Analysts
- Process and Maintenance Personnel

### COURSE DURATION

3 Days

### COURSE DELIVERY

This course is offered in both public and private settings.