This class will cover all of the ECM motors used in residential and light commercial HVAC for the last 20 years from the leader in ECM technology. The knowledge gained in this course will help all HVAC professionals gain the confidence and competence needed to discuss the benefits of, and install ECM driven systems to operate at peak performance and provide maximum comfort, as well as diagnose and service these systems if needed. The biggest advantage of this course is that it comes directly from the manufacturer of the ECM motor that is currently being used in almost all residential and light commercial HVAC systems including furnaces, air handlers, geothermal units and package systems. From theory to practical knowledge, it’s all here.

**ECM Class Objectives**

- Identify the basics of ECM technology
- Explain ECM efficiency
- Utilize the installation requirements of ECM driven systems
- Convey how variable speed technology benefits HVAC systems
- Learn how variable speed motors work against static pressure and their limitations
- Learn how to diagnose and replace variable speed motors
- Convey how X13 motors benefit HVAC systems
- Learn how X13 motors work against static pressure and their limitations
- Learn how to diagnose and replace X13 motors
- Learn how to diagnose and solve airflow issues
- Introduction to ECM outdoor fan motors
- Introduction to new ECM technologies

**Included in this Course**

- NATE CEU’s
- ECM Service Guide
- Decorating with Comfort DVD
- ECM Technical Manual
- TECMate PRO

**About the Instructor**

Christopher Mohalley is the Genteq ECM Certified Master Trainer. He has combined his 16 years of HVAC field experience, instruction and extensive product training to create a nationally-recognized ECM training program. These classes have been provided to manufacturers, contractors, wholesalers, instructors and at conventions such as HVAC Comfortech, the HVACR & Plumbing Instructor Workshop, Skills USA and CMX/CIPHEX in Canada. He serves as a NATE Technical Committee SME, a NATE proctor and ARI Chief EPA Examiner. He is a member of RSES and NATE certified in all disciplines.

**About the Company**

When Regal Beloit acquired General Electric’s Commercial and HVACR Motors and Capacitors businesses in 2004, it also acquired the rights to use the GE brand through 2009. With this rebranding, the Genteq logo will take the place of GE ECM, GE Commercial Motors and GE Capacitors logos on all branded products. For more information on the brand change please visit jointhegeneration.com

This class will be held in the following Locations from 9am until 3pm

- **Des Moines – February 16 – Johnstone Supply Classroom**
  11000 Justin Drive
  Urbandale, Iowa. 50322
  Contact: Cory Paeper – Cell (515)333-1293, Store (515)253-1293
  Cory.paeper@johnstonesupply.com

- **Omaha Stockyards – February 17 – Johnstone Supply classroom**
  4747 So. 30th St.
  Omaha, Nebraska. 68107
  Contact: Megan Scott – Store (402)339-2342
  Megan.scott@johnstonesupply.com