



# Electric Motors For The HVAC Technician

This is a brand new intermediate level class on an old subject, motors. In this half day seminar, taught by motor industry professional, Mr. Rick Streacker, the technician will gain a wealth of practical information that is outlined below. This class will cover important selection and troubleshooting information not found in the usual motor class.

**Class Objective** To provide the service technician with practical real world focused training that will enhance their understanding of motor basics, troubleshooting, motor construction and correct application, selecting correct speed and horsepower as well as useful cross referencing tools.

**Topics covered** *Electric motor basics:* with the focus on AC induction motors in HVAC applications. How to identify a replacement motor when the original motor information is missing.  
Review of motor types, starting characteristics, speed and horse power.  
*Motor troubleshooting:* Uncovering the reasons for the motor failure. Review of typical causes and symptoms of motor failures.  
*Motor construction and applications:* Types of motors, their construction and the suitability of motors in various applications.  
*Selecting the proper speed and horsepower for the replacement motor:* Student will learn how to select replacement motors having the proper speed and horsepower. The effect of static pressure on the blower and fan motor. Why replacing the original motor with a stronger motor is not the proper approach.  
*Motor cross referencing methods and tools:* The critical motor characteristics that must be considered when cross referencing a motor. Lessons include the use of readily available tools.

**Duration** Half day 8AM to Noon.

**Price / Includes** \$35.00 per person includes morning coffee and donuts and various course handouts.  
*Cancellations must be made within two business days to avoid being billed. "No shows" will be billed.*

**Where and When** Camp Hill 490 St John's Church Rd Wednesday, October 20<sup>th</sup> 2010  
Philadelphia 2000 N 59<sup>th</sup> Street Thursday, October 21<sup>st</sup> 2010

**How to sign up** On line @ [www.peirce.com](http://www.peirce.com) go to "Training Classes" and follow the prompts.