

## ELECTRICAL TRAINING WORKS – REGISTER ONLINE TODAY

Improve your position in the industry with greater business opportunities. Learn hands-on skills and the expertise required to successfully manage all key areas of electrical contracting operations.

**EAM is extremely pleased to offer members and non-members:**

### **BASIC ELECTRICAL ESTIMATING**

### **2 DAY COURSE**

**September 14 – 15, 2016  
(8:30am – 4:30pm)**

**CENTRO CABOTA CENTRE, CLASSROOM #5  
1055 WILKES AVENUE  
(INSTRUCTOR – PAT BARNES)**

This course is perfect for small contractors who are not ready to make the investment in a computerized estimating system. “BEE” is designed to teach new contractors the fundamentals of preparing a hands-on electrical estimate using the “Elemental Format”. The course will address material take-off, pricing of materials, and labouring of materials using the “NECA Manual of Labour Units”, as well as labour costs, special overheads, general overheads and profit/contingencies.

**MEMBER (\$399 + GST) NON-MEMBER (\$499 + GST)**

Online registration & payment must be received prior to the course at [www.eamanitoba.ca](http://www.eamanitoba.ca).

FEES INCLUDE CONTINENTAL BREAKFAST, LUNCH, BREAKS,  
AND ALL COURSE MATERIALS

### **BIOGRAPHY**

#### **Pat Barnes**

Pat Barnes began his career with a construction electrician apprenticeship in Manitoba, which was subsequently completed in Alberta in 1972. He then worked as a Journeyman Electrician for the Edmonton Electric Co. Ltd. Having received a promotion, Pat became the Area Manager, serving the Slave Lake area. As his career continued to develop, Pat was then offered, and accepted, a partnership with the company and eventually became the Senior Partner and General Manager.

Due to his exceptional knowledge and expertise within the electrical industry, Pat became a highly sought after resource. Pat served as the ECAA Edmonton Chapter President for a two year period and also held the position at the ECAA as the Provincial President for a one year period. Pat continued his career success holding various trustee positions and eventually started his own consulting business, EQL Services Ltd., providing electrical cost consulting for large institutional projects during the design stages.

Pat is currently employed with the ECAA as their Labour Relations Coordinator, having held this position for more than 10 years. In his role, Pat has developed and delivered state-of-the-art course content and material, to and for members of the electrical industry.