



COLLEGE OF ENGINEERING
LAMAR UNIVERSITY

Golden Triangle Industries
Lamar Engineering Partnership



“Two-day, Electrical Engineering Principles and Practice Seminar and a One-day Arc Flash NFPA 70E 2018 Course”

By Bobby Rauf, PE, CEM, MBA

Tuesday, July 10- Thursday, July 12, 2018

Seminar Hours:

Breakfast: 7:30 am
Tues. July 10: 8am-5pm
Wed. July 11: 8am-5pm
Thurs. July 12 5: 8am-5pm

Location:

Lamar University
Reaud Executive Event Space
Directions:

<https://www.lamar.edu/police/files/documents/shuttle%20and%20parking%20info/Parking-Map.pdf>

Day One and Two Course Description:

This seminar or course covers principles of electricity in a simple, easy to understand, format. Upon attending this course, participants will be able to perform straightforward and common calculations associated with voltage, current, circuit analysis, DC, single phase AC, three phase AC, power, power factor, and much more. Charts and tables, as alternate means for current, voltage and power estimation, are presented. Practical examples of electrical applications, in industrial, commercial and institutional settings are covered. Discussions on electrical, equipment, components, devices and test instrumentation are included. Important concepts in electrical safety are introduced. This course is designed for engineers, professional engineers, energy professionals, engineering managers, technical professionals, facilities managers and other professionals who are not intimately familiar or current on electrical engineering principles and practices.

Seating limited to 25

Cost:

- \$1,000.00 for Partnership members
- \$1,200.00 for non-members

All prices include breakfast and lunch for 3 days plus a copy of course material from Bobby Rauf

Day Three Description:

This course caters to Professional Engineers, Non-Licensed Engineers, Technicians, Facilities Managers, and other professionals who are interested in enhancing their understanding of arc flash risk in their operations or those of their clients. This course is intended to serve as an introduction, review and update on 2018 NFPA 70E based Arc Flash Standards and Requirements. The course begins with an introduction to the general arc flash phenomenon. The science behind the arc flash phenomenon is covered, coupled with discussion of potential causes for arc flash and properties of an electrical power distribution system. Insofar as the relationship between an arc flash event and the electrical power distribution system is concerned, pertinent components such as fuses and breakers, and their role in initiation and mitigation of an arc are explained. Value of arc flash risk analysis is covered, and recommended approach in the absence of a formal arc flash study is explained. PPE prescribed for the four (4) arc flash hazard classes, 1, 2, 3 and 4, is discussed. The three (3) approach boundaries are discussed and illustrated. Arc Flash terminology and respective definitions are reviewed. Arc Flash labelling requirements and methodology are explained. This course is designed to serve as a tool for staying abreast of arc flash requirements with highlights of revisions adopted in 2018. As such, this course can be used to satisfy the Professional Development Hour requirements set forth by most US State Boards and other licensure agencies; or simply, to meet periodic employee training requirements.

Pre-Register Online for upcoming seminars

<https://lamaruniversity.formstack.com/forms/industrialpartnershipseminars>

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