HIGH VOLTAGE ENGINEERING with LABORATORY

Next Offering: January 27, 2020

The high voltage one-day course is specifically designed for engineers and technicians from a wide range of industries. The purpose of the course is to provide opportunities for electric engineers and technicians to observe and enhance their understanding of the mechanisms of high voltage phenomena in a controlled testing environment. The course covers safety aspects and practices in the lab, high voltage measurement techniques, flashover along insulators, insulation material breakdown, corona and electric field effects. Partial discharge in wide bandgap power electronics based motor drives will also be discussed and demonstrated.

The course is taught on the campus of The Ohio State University and the College of Engineering High Voltage and Power Electronics Laboratory.

COURSE OUTLINE
1. Electric and magnetic fields
2. High voltage safety
3. Breakdown in gas, liquids and solids (lab demonstrations)
4. Flashover and corona discharge (lab demonstrations)
5. Partial discharge in wide bandgap power electronics based motor drives

PRE-REQUISITES
A bachelor’s degree in engineering or an equivalent degree and/or work experience is required.

ABOUT THE HIGH VOLTAGE AND POWER ELECTRONICS LABORATORY
The High Voltage and Power Electronics Laboratory at The Ohio State University College of Engineering consists of a 3,600 sq. ft. main high voltage facility and two satellite power electronics laboratories. The High Voltage Lab is the only one of its kind among universities in the Midwest. Its operations are strongly supported and heavily utilized by electric power-related industries. The power electronics facilities are unique to the universities in the State of Ohio and belong to only a handful of power electronics labs in the United States that deal with high power applications.

PRICE
$725 per person with early registration
$799 per person regular price
*Price includes lunch and instructional materials

REGISTER
To register, please visit: go.osu.edu/HighVoltage

CONTACT
Professional and Distance Education Programs
Darla da Cruz, Program Coordinator
614-292-7153 | eng-profed@osu.edu