



## **Transformer Design**

Hosted by the IEEE Orlando PES/PELS/IAS

**Dates & Time: Tuesday April 28<sup>th</sup> at 6pm**

Part 1:

Title: Transformer Design and Design Parameters

Abstract:

The presentation will be on the Basic of Transformer Design. The presentation will explain how a transformer designer interprets parameters such as MVA, lightning Impulse, Switching impulse, Percentage Impedance supplied by a customer. It will touch on Power rating[MVA], Core, Rated voltages, Insulation Coordination, Short-circuit Impedance, Short-circuit Forces, Loss evaluation, Temperature limits, Cooling, Sound Level .. etc. It will also explain overload and life expectancy of a transformer as well when Delta winding is needed in Wye-Wye connection. The presentation will answer why in North America we like to regulate from low voltage side whereas in Europe regulates from high voltage side.

Part 2:

Title: Transformer Manufacturing Processes Abstract: The presentation will be on the Industry wide manufacturing process to build a transformer in the shop floor. Processes will cover Core Construction, Insulation, Windings, Core and Coil, Processing, Tanking, Testing and Shipping. Some of the hold-points during the processes will be explained as well what a customer should look into while doing factory inspection. The presentation will also cover reconnection both in LV and HV, LTC Tap changer both in tank and separate tank, Lead works.

**Locations:**

Located just off SR 436  
OUC Pershing Facility  
6003 Pershing Ave  
Orlando 32822.

Please RSVP to [khaldin@cdmsmith.com](mailto:khaldin@cdmsmith.com) if you plan to attend by no later than Friday March 27th, 2015 .

