

**IEEE**

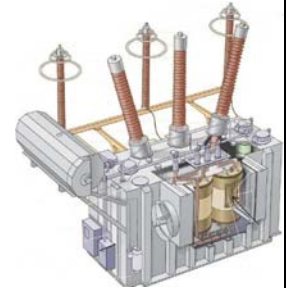
Cedar Rapids Section

Institute of Electrical and Electronics Engineers

Sponsored by: IEEE Power & Energy Society

Schneider
Electric**AND****ITC**we're your energy
superhighway**Tuesday February 24, 2015****Topic: Power Transformer Design and Manufacturing****Part 1: 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: 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.

**Speaker: Ronnie Minhaz, P.E.**

Ronnie holds B.Sc. degree in Electrical Engineering from University of Manitoba, Canada. Before founding his own company "Transformer Consulting Services Inc(www.tc-servicesinc.com)", Ronnie worked as Transformer Designer at Pauwels Canada(Manufacturer), as Equipment Engineer at SNC Lava Lin(EPCM) and Enmax Power(Utility), as Substation Lead Engineer at McGregor Construction(Substation Construction). Ronnie is a registered professional engineer in the province of Alberta, Canada and an IEEE member. Ronnie held various leadership positions at IEEE Section level and a regular member of IEEE PES society.

**Where:** **Schneider Electric**, 3700 6th St SW (enter from 33rd Ave SW), Cedar Rapids, IA [MAP](#)**When:** **Feb 24 5:00 PM – 8:30 PM** A meal is **not** included. Beverages are included.**PDH::** 4 PDH credits available**Price:** No charge for this program *thanks to our Sponsors***Please REGISTER HERE:**<https://meetings.vtools.ieee.org/m/32075>