



Seattle IEEE Power & Energy Society Utility Scale Transformer Training Class, March 23rd, 2017

Dear Friends and Colleagues

The IEEE Seattle Section PES is offering a 1-day workshop on Utility Scale Transformer Specifications, Testing, Operations and Maintenance

This is an opportunity at a low cost for you to learn from an expert about specifying and maintaining Main Station Interchange Transformers, Distribution Substation Transformers, and Generation Step-Up Transformers. You will meet your peers in the industry and build on each other's knowledge.

Cost and Registration

There is a fee for this class. It covers the cost of the instructor, refreshments and lunch. This class is open to all. You do not need to be an IEEE member to attend. It requires a credit card or PayPal account to register. The fee is \$175 for IEEE members per person and \$225 per person for non-members. Each person will need to register individually. There is no group registration. This event qualifies for 8 PDH's with IEEE. The registration for PDH's will be provided at the class.



If interested Register At: [IEEE Seattle Section Transformer Workshop Registration](#)

Registration is limited to 25.

Registered attendees will receive additional parking and badge security information prior to the event.

If you have any questions call or e-mail

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T&D Engineering Manager
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Topic: Utility Scale Transformer Training Class at Tacoma Power

Date: March 23rd, 2017

Time: 7:30am – 4:30 PM

Place: Tacoma Power, 3628 S 35th Street, Tacoma WA

Class is in the Tacoma Public Utilities building, Administration Building South Ground Floor, ABS G5.

See attached for parking and building access requirements.



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UTILITY-SCALE TRANSFORMER WORKSHOP

Schedule:

07:30am – 08:00am Registration, Breakfast, Coffee, Networking
08:00am – 08:15am Opening, Instructor Introduction
08:15am – 10:00am Part 1, Transformer Design and Design Parameters
10:00am – 10:30am Morning Break
10:30am – 12:00pm Part 2, Transformer Design and Design Parameters/ Transformer Manufacturing Process
12:00pm – 01:00 pm Lunch - Provided
01:00pm – 02:15pm Part 3, Transformer Manufacturing Process
02:15pm – 02:45pm Afternoon Break
02:45pm – 04:30pm Part 4, Preparation of Transformer Specification

Workshop:

Utility-scale transformers are custom-built for specific transmission and distribution system requirements. There are many different design approaches, materials and manufacturing processes that can be used to produce utility-scale transformers. These differences can result in varying levels of system performance, power transfer efficiency, fault tolerance, equipment life, cost and the like.

This one-day workshop will provide instruction on the many options available for the design and manufacture of utility-scale transformers, including how to write transformers specification to purchase reliable, economic and least life cycle cost transformer. It will provide insight into specifying the design and manufacture of transformers that are most appropriate for specific system requirements. A sampling of subject matter to be covered in this workshop is provided at the end of this announcement.

Upon completion of the workshop, participants will receive a certificate for eight PDHs.

Instructor:

Mr. Minhaz is the president and founder of Transformer Consulting Services, Inc. He has more than ten years' experience in the specification and design of utility-scale transformers. Prior to forming his own company, he worked as a Transformer Design Engineer at Pauwels Canada (manufacturer), an Equipment Engineer at SNC Lava Lin (ECPM), an Equipment Engineer at Enmax Power (utility), and a Lead Substation Engineer at McGregor Construction (substation construction). Mr. Minhaz holds a BS in Electrical Engineering from the University of Manitoba, Canada, and is a registered professional engineer in the province of Alberta, Canada. He is an active member of IEEE and IEEE Power & Energy Society. He has held various IEEE section-level leadership positions. www.tc-servicesinc.com





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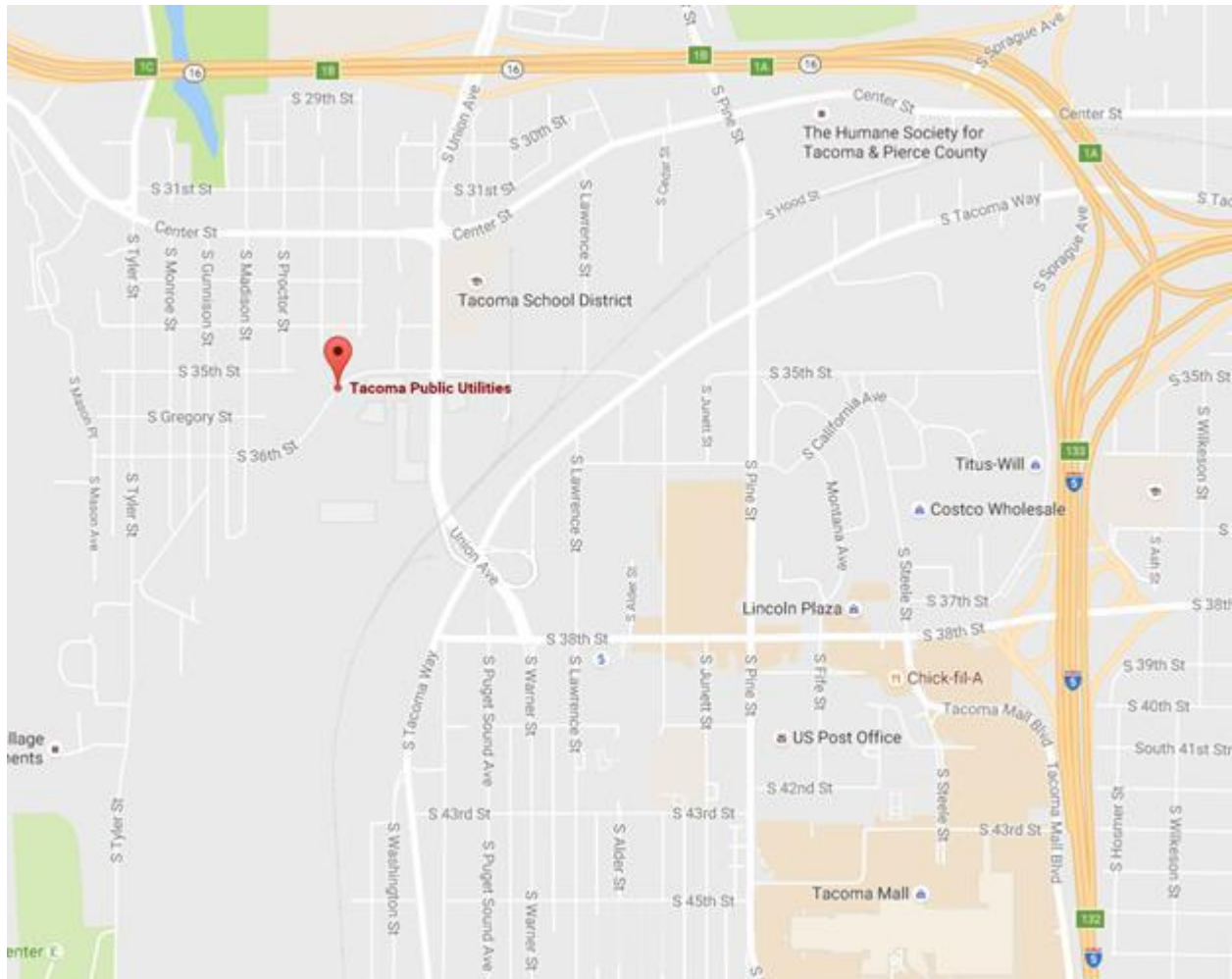
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Car Pooling is encouraged

Parking: Park in Lot C or G. Registered attendees will receive additional parking instructions before the event.

Address: 3628 South 35th Street

Map is located here: [Tacoma Power](#)

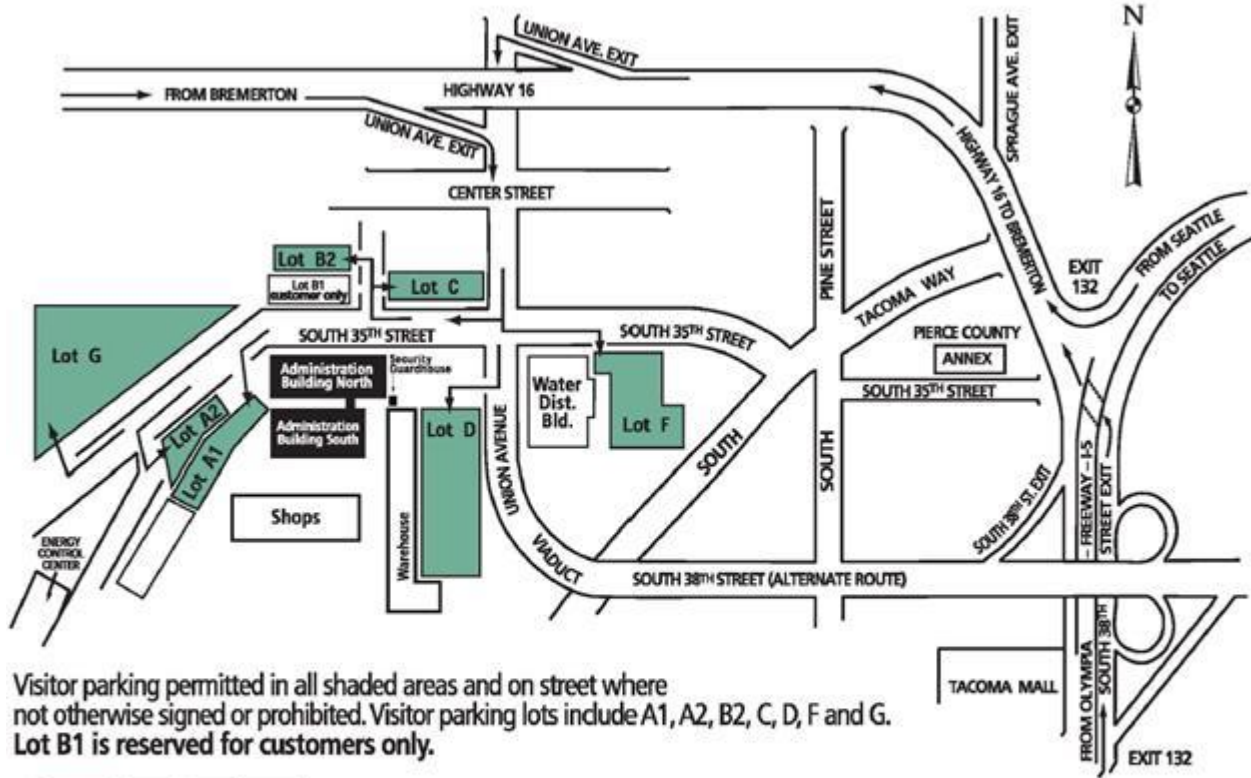


After parking in Lot C or G, please use the main entrance of the Tacoma Public Utilities Building located on 35th Street. Upon entering the building, a Security Guard will greet you, ask the purpose of your visit, request your driver's license, and issue a Visitor Badge.



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Visitor parking permitted in all shaded areas and on street where not otherwise signed or prohibited. Visitor parking lots include A1, A2, B2, C, D, F and G. Lot B1 is reserved for customers only.



**3628 South 35th Street
Tacoma, WA 98409 • 253-502-8000**

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DIRECTIONS -

From I-5 take Highway 16 exit (exit 132).
Take Union Avenue exit off of Highway 16.
Head south on Union Avenue.
Turn right on South 35th Street.