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Control Panel Online Symposium

December 9th, 2020
9:00 am - 5:00 pm EST

Siemens is proud to partner with UL, TÜV SÜD, EPLAN, RITTAL and WSCAD to bring to you the 2nd annual Control Panel Online Symposium!

Learn about recent changes in industrial control panel standards, best practice examples for electrical design, trends in industrial control panel manufacturing, ways to improve engineering efficiency, and much more! The Control Panel Online Symposium comes directly to you with technical seminars, virtual trade show booths, and experts standing by to answer your questions.

Learn more about the seminars you can attend at the Control Panel Online Symposium below and register today!

[Register](#)

www.siemens.com/controlpanel-symposium



Agenda Overview

Here you will find a schedule for the Control Panel Online Symposium. All seminars will be recorded and available for on-demand viewing after the symposium, so be sure to register even if you are unable to attend on December 9th. On the following pages, you can find seminar abstracts to learn more about each presentation. Be sure to also check out the virtual trade show booths where you can learn more about solutions for your industrial control panel designs, engineering and manufacturing and ask questions of experts at Siemens and our partners!

8:30 am	Symposium platform opens
9:00 am	Welcome message <ul style="list-style-type: none">➤ Jacob Middleton, Director of Electrical Products, Siemens USA
	Virtual trade show booths & live chat with experts opens
9:15 am	Session 1 - Choose from the following seminars: <ul style="list-style-type: none">➤ Determining SCCR for Industrial Control Panels➤ Become faster in electrical engineering with Control Panel Designer in the TIA Selection Tool➤ Hazardous Location➤ Control Panel Engineering: Efficiency from Design to Manufacturing
10:15 am	Break: Visit the virtual trade show booths and chat with experts
10:30 am	Session 2 - Choose from the following seminars: <ul style="list-style-type: none">➤ Recent Changes to UL508A and NFPA79➤ CAEX data exchange between the TIA Selection Tool and WSCAD SUITE X PLUS - a time saving feature➤ The Journey of an Industrial Electrical Engineer – a new kind of Electrical Design➤ What is CE Marking?
11:30 am	Break: Visit the virtual trade show booths and chat with experts
11:45 am	Session 3 - Choose from the following seminars: <ul style="list-style-type: none">➤ Unlock your Control Panel with "Line to Load" Communication➤ Modernizing 24V Control Circuit Protection➤ Integrated Engineering with TIA Selection Tool and TIA Portal➤ Avoid common mistakes when using low-voltage switchgear
12:45 pm	Break: Visit the virtual trade show booths and chat with experts
1:15 pm	Session 4 - Choose from the following seminars: <ul style="list-style-type: none">➤ Recent Changes to UL508A and NFPA79➤ Tips and Techniques When Building Control Panels for North America➤ Become faster in electrical engineering with Control Panel Designer in the TIA Selection Tool➤ CAEX data exchange between the TIA Selection Tool and WSCAD SUITE X PLUS - a time saving feature
2:15 pm	Break: Visit the virtual trade show booths and chat with experts
2:30 pm	Session 5 - Choose from the following seminars: <ul style="list-style-type: none">➤ Determining SCCR for Industrial Control Panels➤ The Journey of an Industrial Electrical Engineer – a new kind of Electrical Design➤ What is CE Marking?➤ Control Panel Engineering: Efficiency from Design to Manufacturing
3:30 pm	Visit the virtual trade show booths and chat with experts
5:00 pm	Symposium Closing



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Seminar Details:

Determining SCCR for Industrial Control Panels

Are your industrial control panels marked according to the latest requirements for short-circuit current ratings (SCCR)? Join us for this seminar where we will provide an overview on the latest requirements for industrial control panel SCCR, the basics of short-circuits, how to determine SCCR according to UL508A, and provide practical examples along the way.

Speaker: Siemens

Unlock your Control Panel with "Line to Load" Communication

Learn how circuit protection and control devices inside your control panel provide a clear window into the real-time health of your power circuits. This presentation will follow the electrical path from the main breaker down to individual motor loads for full voltage, reduced voltage, and variable frequency drives. Using common fieldbus networks including PROFINET or EtherNet/IP, we will show how these solutions provide crucial operational, statistical, and diagnostic data to maximize productivity for your machine or process.

Speaker: Siemens

Modernizing 24V Control Circuit Protection

Is your power supply reliable for critical applications? In this seminar, we will discuss reliable 24V power for critical control circuits in compliance to UL508A and NFPA70 (NEC). Attendees will also learn the difference between NEC Class 1 and Class 2 control power, how to optimize overcurrent protection to reduce downtime, and solutions for modernizing your 24V control circuits.

Speaker: Siemens

Avoid common mistakes when using low-voltage switchgear

Extensive knowledge is required for the correct and appropriate use of low voltage switching devices in control cabinets. Errors often sneak directly into the electrical planning which will later affect the switchgear during operation. In this seminar, we will provide an overview of common mistakes when using low voltage switching devices and, at the same time, give you helpful practical tips & tricks on how these mistakes can be avoided.

Speaker: Siemens

Become faster in electrical engineering with Control Panel Designer in the TIA Selection Tool

Switching and protecting motors does not just include the selection of control products. It is more about the sizing of several components and conductors with calculations that should also comply with certain standards and regulations. What if you could design your motor starters with just a few clicks and receive all the important information such as cable cross-sections and short-circuit calculations? And all according to UL or IEC standards? Our new embedded functions for electrical engineering in the TIA Selection Tool can do all of this for you. Let us show you how easy and quick it is and learn more about our new Control Panel Designer.

Speaker: Siemens



Integrated Engineering with TIA Selection Tool and TIA Portal

How can you reduce the costs of your industrial control panel? Reduce your engineering time! Engineering time accounts for nearly 50% of the costs of an industrial control panel. An integrated engineering workflow from product selection through automation engineering reduces engineering time and the possibilities of costly errors. In this seminar, we will show you what an integrated engineering workflow looks like in the TIA Selection Tool and TIA Portal and how integrated engineering can reduce your engineering time.

Speaker: Siemens

Recent Changes to UL508A and NFPA79

Are you up to date on that latest standards for industrial control panels and machinery? UL508A, standard for industrial control panels, is regularly updated to reflect the "state of the art". Likewise, NFPA79, standard for industrial machinery, is updated every three years. In this seminar, we will review the latest changes to these standards and how they impact your industrial control panel and machinery designs.

Speaker: Siemens

The Journey of an Industrial Electrical Engineer – a new kind of Electrical Design.

Efficient electrical engineering requires quickly understanding what needs to be designed, completing the design efficiently while maintaining quality, and providing the results to downstream processes with as little effort as possible. In this presentation, we will take you on a journey to show how you can use Automation Designer with NX Industrial Electrical Design to accomplish these tasks like no other ECAD system can. We will demonstrate how 3D geometries and other mechanical data can be directly incorporated into Electrical Design to enable you to not just understand what machine or line you need to electrify, but to directly access this information to inform your design choices. You will see an integrated electrical schematic design package for NX that allows you to create electrical schematics faster than ever before by leveraging functional design to quickly reuse components and rule-based engineering to speed up tasks. For those looking to improve their cabinet design, you will also see the capabilities of doing 3D cabinet design in NX with full associativity to the 2D schematics. Lastly, we will show how you can leverage the same design environment to simultaneously complete PLC software and hardware design and export this directly to your target PLC system. Join us on a journey to more efficiency and higher quality in Electrical Engineering.

Speaker: Siemens

Hazardous Location

Special considerations are necessary when designing and manufacturing equipment for use in potentially explosive atmospheres. These locations are found in a wide range of industries including Oil & Gas, pharmaceuticals, agriculture, and power generation. Traditional certification models add significant cost to control panels, which are often custom-made for each application on an individual basis. UL solves this problem through its Custom Control Panel Program, which allows manufacturers flexibility (within specific guidelines) to build custom panels, even when they are for use in explosive atmospheres. Learn about the types of panel constructions permitted by UL's Hazardous Locations panel program and overviews of UL 698A, panels installed in Division 1 or Division 2 locations and ATEX/IECEx.

Speaker: UL



Control Panel Engineering: Efficiency from Design to Manufacturing

Join EPLAN and RITTAL for an in-depth exploration of the latest best practices for efficiency in building industrial control panels. Rittal and EPLAN integrate for a seamless process from engineering through manufacturing of industrial control panels that goes beyond the industry standard. Join us to see how you can realize efficiency gains in your control panel engineering and manufacturing process.

Speaker: EPLAN & RITTAL

CAEX data exchange between the TIA Selection Tool and WSCAD SUITE X PLUS - a time saving feature

Reduce engineering time by easily creating the correct configuration of your PLC system. Working with our electrical CAD system WSCAD SUITE X PLUS and SIEMENS TIA Selection tool has never been easier. To speed up your design process we suggest the use of macros and the CAEX interface. If you are looking to place Siemens products in your schematics– they are available in our cloud-based portal: wscaduniverse.com. Learn how easy it is to search and insert components directly into your project. WSCAD means electrical engineering done fast!

Speaker: WSCAD

What is CE Marking?

This CE Marking seminar will provide guidance outlining what you need to know to gain EU Market access and allow you to have free movement throughout the EEA. This webinar will cover the principles of CE Marking, example EU Directives and Regulations, Conformity Assessments, and contents of the Technical File. This seminar is intended to help provide an understanding of CE Marking requirements so you can avoid risks of safety and quality in all project phases. After the seminar, find out how TÜV SÜD can support you as a one stop solutions provider and Trusted Advisor.

Speaker: TÜV SÜD

Tips and Techniques When Building Control Panels for North America

This presentation will be an overview of ten common mistakes when building industrial control panels for North America. The focus of this presentation will be the most common mistakes made when designing and building control panels that comply with the requirements in the Third Edition of the UL 508A, the Standard for Industrial Control Panels, and the 2020 National Electrical Code® (NEC®). The presentation will examine why mistakes are made and explain the proper technique to correct them. Tips for avoiding these mistakes in the future will also be provided.

Speaker: UL

Unable to join? You can still register as all seminars will be recorded and available for on demand viewing using your registration login starting December 10th, 2020.

Questions?

Email us at controlpanelquestions.us@siemens.com