
August 2022 SPED Update

1 message

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Society of Piping Engineers and Designers

August 2022 SPED Update

Symmetry in Design



Membership News

Piper Boot Camp and Process Plant Layout Courses

Sonja Pagel, PBC

Memberships - New & Renewal

Vinoth Kannan Appuraj
Justin Rodriguez
Pedro Tozetti

Mahmoud Fathi Elhelbawy
Robert Gilbert

PPD Certification Enrollments

Oba Sonny Collins

PPD Certification Achieved

Vinoth Kannan Appuraj L1, L2
Mazen Mohamed Sallam L1

Liquefied Natural Gas (LNG) Primer

https://www.spegcs.org/media/files/page/bf3787c6/On_LNG_And_FLNG.pdf

Upcoming SPED Online Live Demos in September and October

For further information and enrollment please contact
catherine_van_der_walt@spedweb.com

PlantStream Online Live Demo

"This system has converted the expertise of skilled plant engineers into algorithms, achieving a new era in automatic design with world-leading precision and speed. It dynamically revolutionizes the EPC industry's long-standing workflow inefficiencies with the power of software."

<https://plantstream3d.com/>

Python Valve (for Plant 3D) Online Live Demo

"When you want add actual lifelike looking valves into your Plant3D model, you have two choices. Either you use the standard Plant3D geometry, which looks a bit odd sometimes. Or you import some geometry from other 3D software. But in this case you will soon run out of your computer power, because these step, iges, or even the inventor files are not optimized for repeated usage in Plant3D. You might need to insert the same valve dozens or hundreds of times in the same model. A third very boring option is to make Autocad blocks for each valve-type and size. But if you have 10 types and 20 sizes for each, then we are talking about two hundred different blocks."

<https://www.tamashalasz.com/python-valve/>

3D Pipe Tools for Plant 3D Online Live Demo

"This program allows you to more easily build 3D pipes in AutoCAD according to the pointcloud, join them with elbows, reducers, t-joints, extract centerlines."

<http://www.gorkovchuk.com/3dptools.html>

Design and Stress Analysis of Jacketed Piping System **(With PDF)**

"Jacketed piping is required to transport highly viscous fluids having very low flowability. The jackets usually provide temperature to the core pipe so that the flowability of the fluid inside the core is maintained. The jacketed piping system consists of two pipes of different sizes. The larger pipe covers or jackets the smaller size pipe. Jacketed piping consists of four main components."

<https://whatispiping.com/jacketed-piping-system/>

Working Through the Barriers of 3D Laser Scanning **Technology Using Innovation**

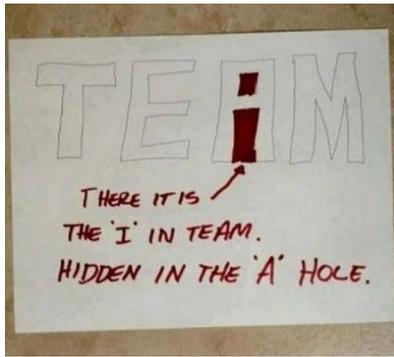
"Hundreds of hours would be spent creating highly detailed piping isometric drawings only to have the words FIELD VERIFY stamped on every drawing. They were in essence a recommended routing with a bill of materials."

https://www.kohera3d.com/article%20content/LiDARNewsMagazine_Johnson-WorkingThroughBarriers_Vol5No2.pdf

SPED Course Bundle Including PPD Certification - Limited **Time Offer**

Back by popular demand - SPED is offering a bundle price for either one of its three online courses, Piper Bootcamp, Process Plant Layout or Level II QA. For the price of one of the courses - \$1400.00 plus membership, both the course, PPD Certification and application is included. This is a US\$300 plus savings.

For further information and enrollment please contact
catherine_van_der_walt@spedweb.com



Milwaukee Valve 3D CAD Valve Generator

This free, web-based valve CAD file generator is easy to use, fast, offers many different CAD file download formats, can do batch downloads, user can modify valve dimensions prior to downloading. It is also possible to specify low or high detail models. It is brilliant.

<https://www.milwaukeevalve.com/2d-3d-cad-files/>

New Course Announcement - Piping Quality Assurance (PPD Level II Preparation)

SPED is pleased to announce its latest addition to the Piper Video Series, Piping Quality Assurance. The course reviews the latest principles and methods available to check process plant layout and piping designs in today's digital world. The Society of Piping Engineers and Designers (SPED) began an analysis of piping assurance checklists and practices as part of its four level Professional Piping Designer (PPD) Certification Program. Level II, Pipe Assurance, assesses the quality assurance of pipe, plus a working knowledge of selected specialty piping systems. Under the direction of the PPD Advisory Committee and the SPED Board of Directors, contributed checklists and practices were distilled into a set of slides and reviewed by experts. Strong attention was paid to assurance of 3D plant models and their extracted documents and data sets. The general principles and methods found are presented in this course.

For more information contact
catherine_van_der_walt@spedweb.com

Supply Does Not Create Demand II

"As Germany has discovered during the current invasion of Ukraine by Russia, stopping the use of fossil fuels abruptly is not practically possible. Likewise, the disruptive campaigns urging us all to do so are quite simply stupid."

<https://www.processindustryinformer.com/supply-does-not-create-demand-ii/>

How Do Pneumatic Actuators Valves Work

"This video shows how do pneumatic actuators valves work and different actuators types such as diaphragm actuator - piston actuator - vane actuator"

https://www.youtube.com/watch?v=MHIInTQV1Tn0&ab_channel=TechnicalEngineeringSchool

Free to SPED Members - High Purity Piping Module

The SPED Board has released its new module on High Purity Piping. The module is free to SPED members. High-Purity piping is important in many industries, including:

- Food, Dairy, and Beverage
- Pharmaceutical
- Bioprocessing
- Semi-Conductor

This module is a quick overview of the standards and practices utilized in High-Purity piping and equipment.

The module is free to all SPED members. Registration can be done yourself, with the enrollment key given to you by this office.

For more information contact
catherine_van_der_walt@spedweb.com

SMEs Wanted for PPD Advisory Committee and New SPED Courses

The goal is to collect knowledge of specialty design practices and unique process equipment found in non-refining / power plant disciplines which utilize piping.

- cryogenics piping
- polymer piping
- solids (powders) piping
- food grade piping
- brewery piping
- steam piping
- pharmaceutical piping
- electronics fab piping
- pulp & paper

REMINDER TO SPED MEMBERS TO UPDATE THEIR PROFILES AND PROVIDE A NON-WORK CONTACT EMAIL ADDRESS

Many SPED members use their work email address when they join SPED, but this means that we will lose your contact details if you change jobs. Login at spedweb.com and keep

your email address up-to-date.

Is it Still Necessary for Architects to Draw?

"One of the many arguments I hear in favour of the drawing must be taught camp is that the act of drawing is superior to the computer because of the mind-to-hand connection. as if it is preferable to draw an idea by hand rather than create it electronically. The idea that the thought process becomes diluted when using a mouse instead of a pen and paper This is where I believe age comes into play. That sentiment, I believe, is more prevalent in the "older" demographic of architects or designers."

<https://arcounico.com/is-it-still-necessary-for-architects-to-draw/>

Professional Piping Designer Certification
GET CERTIFIED WITH SPED
FOR MORE INFORMATION: EMAIL CV@SPEDWEB.COM OR CALL +1 713-960-4478

Are You Certified?
When choosing among pipers, clients and employers know that Certified Professional Piping Designers (PPD) meet the specific requirements of the process piping industry.

Certified PPD Certification | SPED Membership Status
Your Name:
SPED ID:

In today's competitive marketplace, the most qualified pipers have the best careers and their firms receive the most contracts. This is why SPED is promoting PPD Certification for all pipers. To that end, SPED has developed online courses, challenging exams, and programs like the PPD 100% Club to help pipers achieve excellence and document their skills with PPD Certification. The five levels of PPD Certification (see at right) indicate each piper's level of competence.

To schedule your online PPD Certification exam or register for an online course, email web@spedweb.com or call +1 713-960-4478.

LEVELS OF PPD CERTIFICATION
Level I: Basic PPD, Piping, Skilled
Level II: Advanced PPD, Organize Work
Level III: Senior PPD, Independent Producer
Level IV: Lead PPD, Manage, Assure Work

About Certification
All PPD Levels require proctored testing. Currently, level progression is based upon years of experience, education, and industry references. Level IV requires proven past supervisory experience.

SPED offers online courses and an online Review and proctored exams to help you prepare for PPD Certification. Paper Based Testing is a self-paced online course for beginning pipers with piping-related education. *Proctored Exam Layout* is a self-paced online course for pipers with five plus years of experience. Each course's price includes course material, a textbook, exam, and application fee for PPD Certification and one year SPED Membership.

If you are confident in your knowledge of the material listed in our online courses, then the PPD Review and Exam may be the right choice for you. More information about PPD Certification, online courses, and the Review and Exam is available at www.spedweb.com. The PPD Certification application is also available for download at www.spedweb.com.

Steps to PPD Level I Certification
1. Submit a completed certification application form along with your resume and three references.
2. Pass the PPD Level I Examination.
3. SPED will review your application and exam results and determine if all criteria have been met. If all criteria are met, SPED awards certification.
4. Annually renew your PPD Certification at www.spedweb.com.

Steps to PPD Level Advance
1. To advance PPD Level, submit a completed certification application form along with your resume and three references.
2. Pass the appropriate PPD Level examination.
3. SPED will review your application and exam and determine if all criteria have been met. If all criteria are met, SPED awards certification. PPD Level IV may require a review by the SPED Board of Directors.
4. Annually renew your PPD Certification at www.spedweb.com.

Two Steps to Renew
1. Complete and document the required PPD Professional Development Units (PDU).
2. Log in to your SPED account profile at www.spedweb.com.
3. Go to www.spedweb.com, click on *profile* tab.
4. PPD Membership is not necessary for certification.

Round Tables are available for Corporate Members

Piping Designer Field Gear Carry Vest - Now Available



Email vest@pipingdesign.com

Flexicraft is your one call for every style of expansion joint and flexible connector.



(Click link for video)

Don't forget that SPED is always on the lookout for member-written piping-related articles to publish at the website

See you all next time!

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