
February 2022 SPED Update

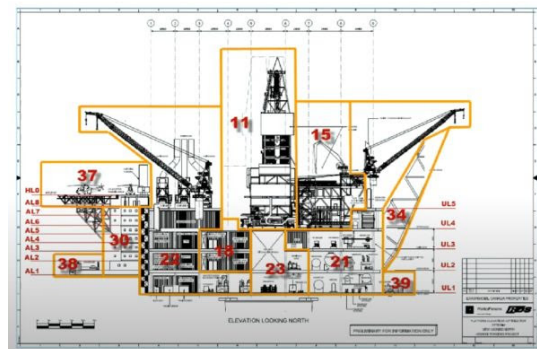
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Sun, Feb 6, 2022 at 8:43 AM

**Society of Piping Engineers and Designers****February 2022 SPED Update**

The plan



New Piping Hot YouTube channel from SPED EVP Paul Bowers. Episode 1 is a 1-hour discussion with colleague SPED member Martin Fournier about the Hebron Project (oil rig) offshore Newfoundland and Labrador, Canada.

Click image to view the podcast and Like and Subscribe

Don't forget that SPED's YouTube channel is

<https://www.youtube.com/c/SPEDSocietyofPipingEngineersandDesigners/videos>

Membership News

PPD Certification Enrollments

Fares Ahmed Mohamed Ali PPD1
Hassan Hawam Ahmed PPD3 & PPD4
Mustafa Naser Mutar PPD1
UCC Environmental PPD?
Said Hallouche PPD1

Piper Boot Camp and Process Plant Layout

Krisjon Sison
Jorge Olavarrieta
Mo Somji
Daniel Koryzna
Michel Bolduc
Conor Mallon
Dali Mehdi
Du Pont - Christina Porter
Gary Sanders

Memberships - New & Renewal

Michel Bolduc
Krisjon Sison
Jorge Olavarrieta
Mo Somji
Daniel Koryzna
Tim Cozens
Robert Oakley
Mohamed Gowaili
Keviin Petursson
Ibrahim Nasser
Ahmed Negm
Mohamed Mostafa
Abdelrhman Marzouk
Dustin Gray
Conor Mallon
Mohamed Hares Ammar
Brenna Kolar
Juan Martinez
Jeffrey Hosford
Sonali Singh
Sergio Hernandez
Paul Donnelly
Patty DeMichelis
Sujit Potdar
Lakshman Anand
Regis Hugonnard-roche
Geeta Pherewani
Rob Campbell
Mohamed Hosny Elraby Aleedin
Bruce Fraser
Michael Kaiser
Rajeesh Ghosh
Henry Flores

Dali Mehdi
Michael Dyrgas
Hussein Mahmoud Dawski
Mohamed Almolla
Mohamed Gibril
Fares Ahmed Mohamed Ali
Christina Porter
Mazen Sallem
Bashir Mustapha

Corporate Memberships

UCC Environmental
Aspen Technologies

Video Series Purchase

UCC Environmental

PPD Certification Achieved

Thabeng Malebane PPD1
Mustapha Zeroula PPD1
Elvis-Bob Bechiro PPD2

PBC Completion

Tyson Johnson PBC
Matthew Rapp PBC
Daniel Korzna PBC
Gary Sanders PBC

High Purity Course Enrollments

Joshua Chukwuemeka

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

SPED Video Series Course Pricing Update

Pricing: All SPED Piper Video Series are licensed only to Corporate Members in good standing.

UPGRADE TO CURRENT VIDEO SERIES VERSION (CONTACT SPED FOR FULL UPGRADE)	
Through January 31, 2022: Addition to existing video series licensees	US\$ 4,500
After January 31, 2022: Addition to existing video series licensees	US\$ 5,000
CURRENT VIDEO SERIES WITH NEW COURSE (3 COURSES)	
Through January 31, 2022:	US\$ 13,500
After January 31, 2022: Addition to existing video series licensees	US\$ 15,000

The Prestige of Piping Engineering in the Next Decade

<https://www.eng-tips.com/viewthread.cfm?qid=490747>

New SPED YouTube Channel Uploads

SPED / Chempute Piping Assurance in a Digital World By William G Beazley, PhD, PE

https://www.youtube.com/watch?v=Y45VzkdKogo&ab_channel=SPEDSocietyofPipingEngineersandDesigners

SPED / Chempute Full Scope Piping Management Using HVECs By William G. Beazley, PhD, PE

https://www.youtube.com/watch?v=Ox_5wMnb2vc

3-Way Ball Valves - Understanding T-Port vs L-Port Directional Flows

"A two way valve allows a fluid to enter the valve from one port, and exit through the other. Having a third port, allows fluid an alternate path of travel, either when exiting or entering the valve. This permits fluid to either exit the valve from more than one point, or enter the valve from more than one point."

<https://valveman.com/blog/understanding-tport-vs-lport-directional-flows/>

On Becoming a Good Chemical Process Engineer

(LinkedIn)

More On Becoming a Good Chemical Process Engineer

(LinkedIn)

New SPED Mini Surveys - We Need Your Input

Piping Isometrics Survey.

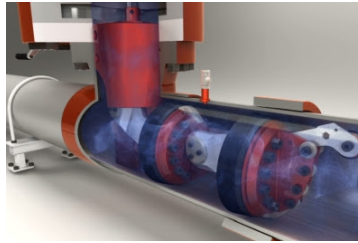
<https://lp.constantcontactpages.com/sv/blQ5o5v/pipingisometrics1>

Field Trip Equipment Quick Survey:

<https://lp.constantcontactpages.com/sv/KCDY4rp/fieldequipment1>

Stopple

"A procedure used in the repair of a pipeline to isolate a section of line in the absence of a shutoff valve. After welding a flanged saddle to the pipe, the line is hot tapped—a method of making a connection to existing piping or pressure vessels without the interruption of emptying that section of pipe or vessel—and an expanding resilient plug is inserted into the pipe bore. When the repair is completed, the plug is withdrawn and a valve, installed on the saddle flange, is closed."



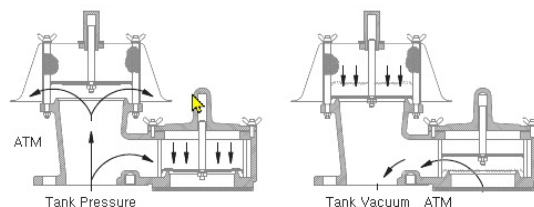
<https://www.tdwilliamson.com/resources/videos/stoppler-train-plugging-system>

How to Select the Right Pipe Material for Fluid Handling Operations

"When implementing or constructing a fluid handling system in your plant or warehouse, you will have to make several decisions based on your industry, handled materials and objective. One of the most important decisions you will make during this process is the type of pipe material you need to transport your liquids, gases, chemicals and other fluids. This is not a decision to make lightly — the wrong pipe material could jeopardize the quality of your product, as well as the safety of you and your employees."

<https://www.semcor.net/blog/selecting-the-right-pipe-material/>

Tank Breather Valves



"The Breather Valve is a protection device mounted on a nozzle opening on the top of a fixed roof atmospheric storage tank. Its primary purpose is to protect the tank against

rupturing or imploding."

http://www.wermac.org/equipment/breather_valve.html

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

Artificial Stupidity.

"Computer Aided Design, in the sense of computers surplanted engineering judgement, is however still at the stage of artificial stupidity (as opposed to artificial intelligence). Not only are "design" programs stupid, they make those who use them stupid as well."

<https://www.processindustryinformer.com/artificial-stupidity>

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

Loading Arms - The Unsung Hero of Fluid and Bulk Solids Delivery

"A loading arm usually comprises two or three of lengths of pipe that end in 90-degree elbows. Each end is joined to the next tube by a swivel, a mechanical device that can rotate 360 degrees and still contain the media. One end of the unit is fastened to a storage container or a tank, and the other end has a coupler that attaches to a port for emptying a railcar or a tank. When a railcar or tanker truck stops to unload its cargo, a depot operator swings the loading arm into position, fastens it to the unloading port, and opens a valve."

<https://www.thefabricator.com/tubepipejournal/article/tubepipefabrication/the-unsung-hero-of-fluid-and-bulk-solids-delivery>

Random Radiography

"Fabricators and contractors always should check to be sure that the extent of nondestructive examination and the acceptance criteria required are understood clearly by all parties and documented in writing."

<https://www.thefabricator.com/thewelder/article/testingmeasuring/random-radiography>

Special COVID-19 Home Study Pricing Continues for February 2022

SPED recognizes that many of our members are under stay-at-home orders. We must work and study away from workplaces and schools.

Continuing for the month of February, SPED is offering a bundle price for its two online courses, **Piper Bootcamp** and **Process Plant Layout**. For the price of the course (membership required), both the course and PPD Certification Testing and application is included. This is a US\$250 savings.

We hope this helps utilize the time productively. Please stay safe!

For more information contact
catherine_van_der_walt@spedweb.com

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](https://www.spedweb.com) and keep your email address up-to-date.

Isolation Philosophy: Equipment, Instruments, and Utilities Isolation Methods (PDF)

Isolation philosophy or positive isolation philosophy is a standard procedure that describes a method for isolating a section of a plant to permit safe operation & provide access for maintenance. The philosophy & criteria given in this article shall be incorporated into P & ID. It includes process equipment, piping, and utility equipment & piping as well as requirements of instrumentation isolation.

<https://whatispiping.com/isolation-philosophy/>

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

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

Levels of PPD Certification | SPED Membership Status

Level	Membership Status
Level I	Basic PPD, Property Started
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 practical 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 practical exams to help you prepare for PPD Certification. Piped BestCamp is a self-paced online course for beginning pipers with piping-related education. Piped Start-Camp is a self-paced online course for pipers with five plus years of experience. Each course's price includes course material, a textbook, exam, the 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 results 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) by logging in to your SPED account profile at www.spedweb.com.
2. Go to www.spedweb.com, click on PPDV Renew.

SPED Membership is not necessary for certification.

Workstations for Point Cloud Processing

<https://aecmag.com/workstations/workstations-for-point-cloud-processing-leica-cyclone/>

Piping Designer Field Gear Carry Vest - Coming Soon



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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