



Learn how Cognascent uses Meticulous Verification to enhance HAZOPs & LOPAs

Where:

George R. Brown Convention Center (Room 360 or at Booth 403) in Houston, Texas

When:

Tuesday, April 12th @ 4:00 p.m.

Paper:

Assessing Meticulous Verification Effectiveness Utilizing HAZOP and LOPA

Authors:

John T. Perez, P.E., William Wimberly, CSP

Abstract:

In 2011, the Center for Chemical Process Safety initiated work on Vision 20/20. The goal of Vision 20/20 is to demonstrate what perfect process safety will look like when it is championed by industry; driven by five tenets of culture, standards, competency, management systems, and lessons learned; and enhanced by community passion and four global societal themes. The five tenets serve as a framework of what constitutes high-integrity, effective, and successful process safety management. The four global societal themes represent critical supporting efforts to the overarching five tenets.

One of the four global societal themes is meticulous verification. Meticulous verification provides the perpetual assurance of integrity for an organization's dynamic process safety management program. Meticulous verification specifically calls for collaboration between companies and third-party entities to ensure comprehensive and ongoing assessment of process safety management's effectiveness.

Do not miss out on Cognascent Training!

The best way to stay ahead of your competitors during a sluggish market is to **keep making progress**. With that in mind, Cognascent is providing special deals on each of its training courses.

Our industry trained instructors are "working" instructors, which means they are not retired and still very much in the "know" regarding the new recommended practices and interpretations relevant to their fields.

[Check out](#) our reduced prices and gain insight into the following areas of our expertise:

[PSM Overview](#)
Houston, TX
May 2

Based on the authors' experiences as HAZOP and LOPA facilitators, meticulous verification serves as the mission critical Vision 20/20 element for long-term sustainability. A HAZOP is a nexus of process safety information and process safety management systems' effectiveness and serves as a bellwether of an organization's overall PSM integrity. The integrity of a management system is only as strong as the discipline of its keepers to do the right thing irrespective of the consequences. This discipline is tested over and over again every day in HAZOP, as the HAZOP team is relied upon to verify information for accuracy and applicability regarding a wide range of technical subject matter.

In this paper, the authors provide a detailed map of HAZOP and LOPA meticulous verification tasks and interactions. Specific examples of MV vulnerabilities and safeguards are provided to enhance the effectiveness of PHA teams. These vulnerabilities and safeguards address issues such as operating procedures and operator response, enabling and conditional modifiers, management of change, mechanical integrity and testing of safeguards and IPLs.

[Read the full paper here.](#)

[PHA with Focus on HAZOP Methodology](#)

Houston, TX

May 3 - 4

[PHA with Focus on LOPA Methodology](#)

Houston, TX

May 5

[PSM/PHA 4-Day Bundle](#)

Houston, TX

May 2 - 5

[Relief System Design and Analysis](#)

Houston, TX

May 23 - 26

[Click here](#) to email Cognascents or call us at 281-717-8590 for more information.

[Cognascents Integrity Blog](#)

Doing the right thing is not always black and white...sometimes it requires a lot of thought and no hesitation.

This past Saturday we had to put our dog down. It was a very hard day and a tough weekend for our family. Colette and I got married in 2001. Having children was not easy for us and while we struggled to conceive we welcomed Wren into our home as a puppy in early 2003. She was a German Shorthaired Pointer (GSP) and we bought her from a breeder who lived in Colorado Springs. She was true to her breed – natural pointer, high-energy, brave, intelligent, affectionate, very vocal, and extremely loyal. She was our first kid. Colette and I were blessed with twins in 2004 and then again

[Visit our Updated Website](#)

Cognascents has completed the first stage of its [website update!](#)

The first stage of the update was focused on including all the products and services we can provide to you, our clients. We are excited for the next stage of the update, which will focus on the look and feel of the website.

While you are waiting on the cosmetic updates to our website, take the time to look and see how Cognascents can serve your company with:

1. [Process engineering services;](#)
2. [Process safety services;](#)
3. [Environmental services; and/or](#)

[Job Posting](#)

Cognascents is searching for a Relief Systems Delivery Manager!

At Cognascents the primary function of a Relief Systems Delivery Manager would be to oversee all aspects of relief systems design focused projects from conception to final closeout. The manager would be responsible for supervising 5 to 10 engineers with their development of overpressure scenarios, calculation of required relief rates, sizing of associated relief devices, and effluent systems evaluation by utilizing previous experience in depressurization blowdown simulations, consequence modeling, assessment of layers of protection, and process simulation software like Aspen

in 2007. Wren adjusted well to the new critters...

[Read Cognascents' full blog here.](#)

[4. Technical training solutions.](#)

[Contact us](#) so we can help you scope out and price your next project. We are here to serve you.

HYSYS, Aspen Plus, and Pro II.

For more information on this job opening visit [our website](#) or contact us directly by emailing [John Perez](#).

[What is Cognascents?](#) | [Process Engineering Services](#) | [Process Safety Services](#)
[Environmental Services](#) | [Training Solutions](#) | [Our Team](#) | [Resources](#)

© Copyright 2016 Cognascents Consulting Group, Inc. All Rights Reserved.

This e-mail was sent by Cognascents, located at 1519 Vander Wilt Lane, Building 4, Katy, TX 77449

[{tag_viewinbrowser}](#)

[{tag_unsubscribe}](#)