# The Hydraulic Safety Press SPRING, 2012



YOUR SOURCE FOR HYDRAULIC SAFETY AWARENESS NEWS, TIPS & INFORMATION

## **Events & News**

- Visit Hydraulic Safety Authority of Canada Inc. at booth number 354 at Canada's Largest Health and Safety Event May 1-2, 2012 International Centre, Mississauga, Ontario Partners in Prevention 2012 Health & Safety Conference & Trade Show is Canada's largest health and safety event. 4500 health and safety professionals are expected to attend for networking, educational and knowledge sharing.
- SAFETY SERVICES MANITOBA Hydraulic Safety Exposure Level training returns to Safety Services Manitoba on April 23 Contact Safety Services for details.
- WORKFORCE EXCELLENCE
  Manitoba Heavy Construction Association.
  The MHCA launched their first annual three day Heavy Construction EXPO: held March 20-22, 2012, at the Winnipeg Convention Centre.
  Congratulations to those 45 participants who completed the Exposure Level hydraulic safety awareness training course delivered by HSAC's instructor Casey Ruttan.
- HSAC would like to thank all the members of the Association of Electrical Utility Safety Professionals (AEUSP) who were in attendance at the hydraulic safety awareness presentation hosted at Waterloo North Hydro on March 21
- Professionals (BCRSP) has awarded the Hydraulic Safety Awareness Course, HSAC High Risk Maintenance Level, 1.0 CMP. The CMP approval number is 12049 for 2012 calendar year. HSAC would like to congratulate all CRSPs who completed the High Risk Maintenance Course.



Poster Campaign A Success

HSAC is pleased to hear many organizations are making awareness of hydraulic hazards through the use of HSAC safety posters. To view the free safety posters please visit us at http://www.hsac.ca/survey.html

All safety posters are available for printing from the HSAC website. Please forward this link to colleagues,

supervisors and field personnel for posting on bulletin boards and for use in safety meetings. HSAC will be posting a new poster every two weeks. Next month, posters will be available in French.



#### **Online Safety Courses**

HSAC is very pleased to offer many more online safety training courses visit www.hsac.ca

- Electrical safety training
- Aboriginal awareness
- Arc flash awareness
- Lithium battery
- Alcohol and drug awareness
- Basic fire fighting
- Drivers responsibly inspecting vehicles everytime
- Hazard assessment
- Safe slinging and rigging practices
- Sexual harassment part 1: hostile environments
- Sexual harassment part 2:quid pro quo & retaliation
- Workplace harassment: the real deal
- WHMIS
- Goal setting
- · Effects of stress on driving
- Winter driving fundamentals
- Time management

# **Evolution of Hydraulic Safety**

Formal developments in occupational safety training programs are rapidly growing in Canada and around the world. A vast array of mediums in today's flow of information technology has advanced the way we learn and has shortened the period in which we can receive information. Technology overall is advancing rapidly, and in this advancement are hazards that to are advancing rapidly. Take for example Nanotechnology, as advancement is made in the processes of Nanotechnology so do the related hazards advance.

Energy is one of the highest occupational hazards found in today's workplace. Hydraulic energy is one form of energy that has been with us for hundreds even thousands of years. Hydraulics is the applied science dealing with fluid mechanics. Hydraulics simplified is the control of a confined fluid for power transmission. The hazards that evolve from "energy & power" are endless and with each advancement in the use of energy equates to more hazards. When we exist with hazards we need to be well aware and understand them, and in the employer - employee relationship it's our right and duty.

In an effort to assist both employers, and employees, with compliance, safety training courses are continuously evolving. Now that we have access to global information at our fingertips, incidents involving hydraulic equipment are now not so "isolated". Reports of hydraulic related incident can be easily found.

Hydraulic energy has been the cause of death, injury, property damage and environmental damage throughout all industries.



Hydraulic safety awareness training is one of those new developments. Although hydraulic hazards have been in existence for hundreds of years, only now has the knowledge been formally compiled for advancing safety education. Hydraulic safety awareness isn't considered

unique, but one step in the evolutionary growth of hazards

and hazard mitigation. 🍁

This article was written by Colin Bonner, founder and CEO of Hydraulic Safety Authority of Canada Inc. & Magnum Hydraulic Services Ltd.





### **Hydraulic Circuit Analysis**

#### THE BEGINNING OF A SAFE AND EFFICIENT HYDRAULIC REPAIR

I can't tell you how many times i've been called out to a customer's location to troubleshoot a hydraulic failure and there was either no schematic in existence, or it wasn't readily available. This can make troubleshooting very difficult and extremely dangerous if you don't know what you're doing. Being able to see a circuit on paper allows the opportunity to identify potential problem areas before going out to the field. Schematics can also play a large role in identifying potential hazards, inspection points, and areas for lockout and energy control. Hazard assessment meetings and pre-start health and safety reviews should also include schematics of the hydraulic circuit.

If your facility has a central location for storing hydraulic schematics then you're ahead of the game!! If not then building this valuable resource now will help you greatly in the future!

Yours in hydraulic safety, Casey Ruttan

#### **The Fatal Facts of Hydraulics**

#### COUNTERBALANCE VALVE REMOVAL

Disassembly and removal of hydraulic components can be extremely hazardous when technicians are unable to determine if machine components are supported and restrained. Unsupported loads and machine components are energy generators in a fluid system. Loads that are supported by confined fluid then unknowingly released during a maintenance procedure have caused many injuries and fatalities. Contact colin@hsac.ca for the 7 page article.

#### **Safety Bulletin**

HSAC has received numerous requests for names of medical facilities that are capable of dealing with a fluid injection injury. HSAC has not yet compiled a list of these facilities. Please take time to contact hospitals and trauma units in your area. When contacting medical facilities, put your inquiry in writing and request the response in writing. It has been brought to our attention many medical facilities who were contacted by phone stated they were equipped to handle such an injury. Upon further investigation those facilities were not equipped. It is very important the injured persons are not misdiagnosed should a fluid injection injury occur. The risk of amputation increases with time latency. Initial symptoms and prognosis may be under estimated. Larger hospitals that have a surgical department employing surgical specialists in; plastic, reconstructive, aesthetic, microscopic, and hand surgeries would be experienced and equipped to manage such injuries.



Some of our free safety posters, which are available on our website.



www.hsac.ca



416.363.7272



info@hsac.ca