

2018

LIFE SAVING RULES

Toolbox Talk

Hot Work

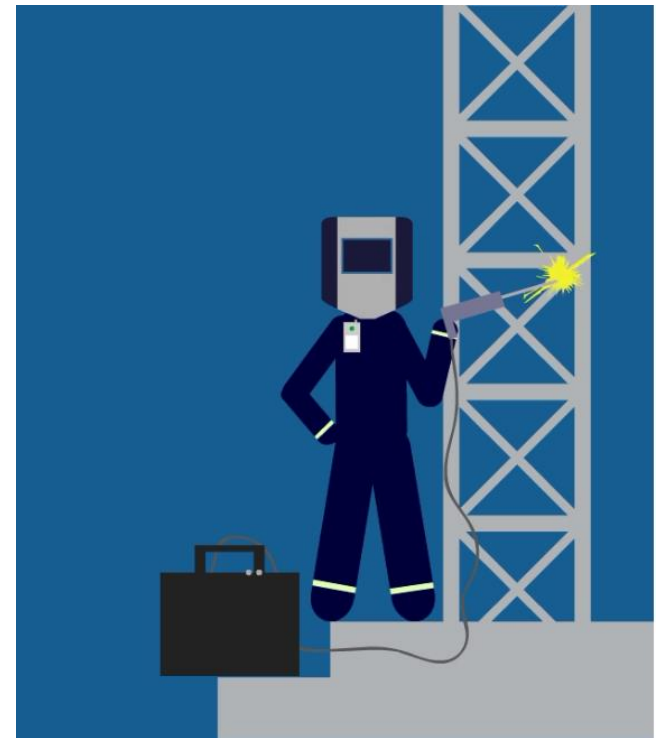


SETTING THE STANDARD IN OIL AND GAS SAFETY

ENERGY
SAFETY
CANADA

OUTLINE

- ▶ 10 Life Saving Rules
- ▶ Description of Hot Work Rule
- ▶ Additional Guidance
- ▶ Roles & Responsibilities
- ▶ Example Violations
- ▶ Related Life Saving Rules
- ▶ Summary



ENERGY SAFETY CANADA'S 10 LIFE SAVING RULES



CONFINED SPACE



WORKING AT HEIGHT



WORK AUTHORIZATION



ENERGY ISOLATION



LINE OF FIRE



BYPASSING SAFETY CONTROLS



DRIVING



HOT WORK



SAFE MECHANICAL LIFTING



FIT FOR DUTY

HOT WORK RULE

▶ Control flammables and ignition sources

- ▶ I identify and control ignition sources
- ▶ Before starting any hot work:
 - ▶ I confirm flammable material has been removed or isolated
 - ▶ I obtain authorization
- ▶ Before starting hot work in a hazardous area I confirm:
 - ▶ A gas test has been completed
 - ▶ Gas will be monitored continually



ADDITIONAL GUIDANCE

- ▶ What are some **ignition sources** in relation to hot work?
 - ▶ They may include welding, braising, cutting or any other activity that may generate an open flame or heat source
- ▶ Be aware!
 - ▶ Residual or stored energy in the form of **trapped flammable gases and vapours** may be present in equipment

AS A SUPERVISOR

- ▶ I ensure workers have and use a work permit as indicated by work procedures and/or site requirements
- ▶ I ensure workers are competent in the control of ignition sources, the management of fuel sources, and the use and limitations of combustible gas monitors
- ▶ I confirm that any simultaneous operation which may impact work is addressed in the work permit

AS A WORKER

- ▶ I have the required training and knowledge to safely perform work
- ▶ I obtain a work permit for hot work activities and obtain permission to bypass safety critical equipment such as flash detection (fire eyes)
- ▶ I identify and remove or isolate flammable materials such as gases, liquids and solids
- ▶ I conduct testing for residual or stored energy and only proceed with work when the energy is zero
- ▶ I conduct combustible gas testing prior to starting work and continually during the work
- ▶ I only smoke in designated areas

EXAMPLE VIOLATIONS

- ▶ Welding sparks are not being controlled
- ▶ Flammable materials located below a pipe being cut with a torch are not removed or isolated
- ▶ Welding is conducted with no hot work permit being issued
- ▶ Trapped vapours have not been purged
- ▶ Combustible gas testing is not conducted prior to and during hot work activities
- ▶ Smoking outside of designated areas

RELATED LIFE SAVING RULES



LINE OF FIRE



**BYPASSING
SAFETY
CONTROLS**



**ENERGY
ISOLATION**



FIT FOR DUTY



**WORK
AUTHORIZATION**

SUMMARY

- ▶ Know your role and responsibilities in relation to the Hot Work rule
- ▶ Notify your supervisor immediately if you are unsure about how to comply with this rule in your work environment
- ▶ If you see a potential violation of the Hot Work Life Saving Rule, intervene – it could be the last chance to prevent a fatality
- ▶ Consistent application of the Life Saving Rules equates to saved lives
- ▶ These rules are essential to achieving industry's shared vision: zero injuries, zero incidents

QUESTIONS?