

2018

# LIFE SAVING RULES

Toolbox Talk  
Hot Work



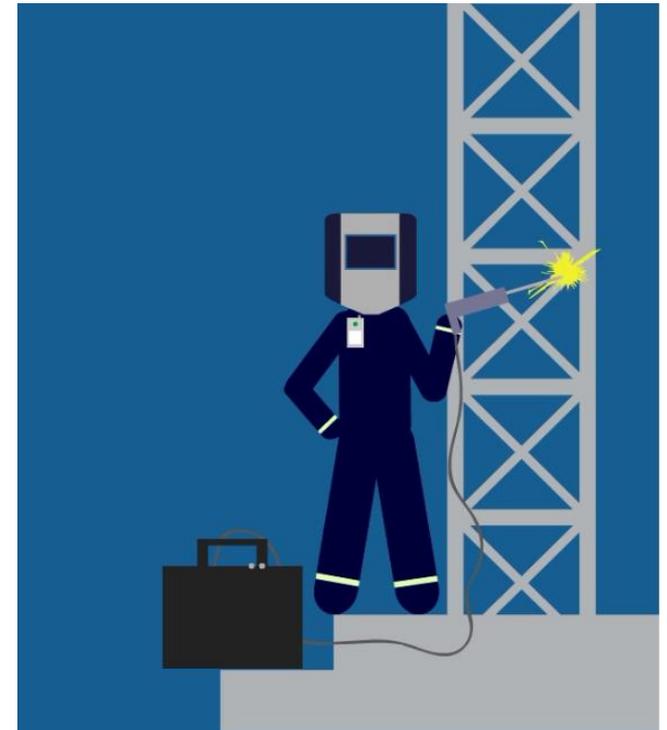
ENERGY  
SAFETY  
CANADA

SETTING THE STANDARD IN OIL AND GAS SAFETY

## OUTLINE

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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**WORKING AT  
HEIGHT**



**WORK  
AUTHORIZATION**



**ENERGY  
ISOLATION**



**LINE OF  
FIRE**



**FIT FOR  
DUTY**

## SUMMARY

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- 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?