

# Hot Work Safety



Good morning, team. Today, we're focusing on welding and hot work safety. These activities are essential on our construction sites, but they pose significant risks if not handled properly. By following safety protocols, we can prevent accidents and ensure a safe working environment for everyone.

## Importance of Safety in Welding and Hot Work

Welding and hot work involves high temperatures, intense light, and hazardous fumes, which can be dangerous. It's critical to understand the risks and follow safety measures to protect ourselves and our coworkers.

## Key Hazards in Welding and Hot Work

1. **Burns and Fires:** Both welding and hot work generate extreme heat that can cause severe burns and ignite flammable materials.
2. **Eye Damage:** The bright light and ultraviolet radiation from welding can cause serious eye injuries, including flash burns.
3. **Inhalation of Fumes:** Welding and hot work produce fumes containing harmful metals and gases that can cause respiratory problems.
4. **Electrical Shock:** Welding equipment operates at high voltages, posing a risk of electrical shock.
5. **Physical Injuries:** Handling heavy equipment and materials can lead to physical injuries, such as cuts and bruises.
6. **Explosions:** Hot work can ignite gases or vapors, leading to explosions.

## Personal Protective Equipment (PPE)

To mitigate these risks, always wear appropriate PPE:

1. **Welding Helmet:** Use a helmet with a proper filter shade to protect your eyes and face from radiation and sparks.
2. **Gloves:** Wear flame-resistant gloves to protect your hands from burns and cuts.
3. **Protective Clothing:** Use flame-resistant clothing to shield your body from sparks and heat.
4. **Respiratory Protection:** Use respirators or fume extraction systems to avoid inhaling harmful fumes.
5. **Safety Glasses:** Wear safety glasses under your helmet for additional eye protection.
6. **Hearing Protection:** Use ear protection to prevent hearing damage from loud noises.

## Safe Work Practices

1. **Inspect Equipment:** Regularly check welding and hot work equipment for damage or wear. Ensure all connections are secure.

# Hot Work Safety



2. **Maintain Clean Work Areas:** Keep the work area free of flammable materials. Clean up spills immediately.
3. **Proper Ventilation:** Ensure adequate ventilation to disperse fumes and gases.
4. **Fire Watch:** Assign a fire watch during and after hot work to monitor for and extinguish any sparks or flames.
5. **Use Barriers:** Set up welding screens or barriers to protect other workers from sparks and radiation.
6. **Follow Procedures:** Adhere to all site-specific safety procedures and guidelines.

## Emergency Preparedness

1. **Know Emergency Exits:** Familiarize yourself with the location of emergency exits and escape routes.
2. **Fire Extinguishers:** Ensure fire extinguishers are readily available and know how to use them.
3. **First Aid:** Be aware of the location of first aid kits and know how to administer basic first aid.

## Conclusion

Welding and hot work are vital to our construction projects, but safety must always be our top priority. By wearing the appropriate PPE, following safe work practices, and being prepared for emergencies, we can minimize risks and create a safer work environment for everyone.

Thank you for your attention. Let's stay safe and have a productive day.

# Hot Work Safety



## Safety Meeting Sign-Off Sheet

Date: \_\_\_\_\_

Job Name: \_\_\_\_\_

Competent Person Name: \_\_\_\_\_

Competent Person Signature: \_\_\_\_\_

Topic: Hot Work and Welding

Attendees:	