

## Safety signs for Gas Hazard Areas

### Specifications

























- All gas hazard areas must be identified and warning signs should be posted
- A documented and up to date risk assessment must be available
- A permit system to control access of authorized employees and contractors to be put in place



### Safety Work Instructions in gas hazard areas

- Only workers trained in the task to be performed should be permitted in the gas hazard areas
- All controls and safety device, on both equipments, should be checked to ensure they are working properly.
- “Hot work (welding, soldering, braising, cutting, ...) carries the risk of fire and tasks may only be carried out after a duly authorized ‘permit for hot work’ has been issued” and “Prohibition of smoking or open flames in gas hazard areas.”.
- Appropriate gas monitoring must be done before, during and after work has been completed. In some cases, defined by a risk assessment, monitoring may not only include displaying, but also include e.g. audible, vibration and warning lights alarms.
- Use more than 1 monitor at the same time to measure before entering provides extra security and is thus to be practiced.
- Monitoring before the job may require use of individual respiratory equipment; this has to be included in the task description based on the risk analysis. This monitoring must be done by trained and certified people.
- There must be a method to ensure supply of air
- There must be a process where a written permit (one time task) or a written procedure (repetitive or continuous jobs) is used to plan and control the work involved in isolating, purging and making the area safe for maintenance and other activities. All isolations made to render the work safe must be physical isolations and follow the ArcelorMittal Isolation Standard (AM Safety ST 001).

Required Checklist

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- Are all GHA marked by proper safety signs?
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- Is there an up to date layout plan in which all gas hazard areas are highlighted?
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- Is there an alarm system that continuously checks and warns of carbon monoxide levels?
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- Are all gas hazard areas identified as such following a full risk assessment using appropriate warning signs?
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- Is a gas committee established in order to ensure that activities involving gas hazards are performed safely and efficiently?
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- Is there an awareness training system about working in a gas hazard area, available for both contractors and ArcelorMittal employees?
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- Is there an emergency plan established for the gas hazard areas?
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- Are all PPE as required for work worn?

This document has to be used as a help before starting the work or performing a SFA