

Electric Arc Welding

Guidance Note 指引

This guidance note covers the main requirements when doing Arc Welding

General

- ✓ All electric arc welding operations shall be carried out under the Permit to Work system and a supporting Hot Work permit.
- ✓ Only qualified welders shall execute all welding activities.

Hazards

- ✓ To eyes and skin: damage from harmful radiant energy or from reflecting UV light.
- ✓ Burns from hot metal, splattered slag or metal or from handling hot objects.
- ✓ Electric shock from un-insulated equipment.
- ✓ Toxic fumes if welding on coated metals (lead, galvanizing, zinc) or welding of toxic metals.
- ✓ Sparks leading to fire of nearby combustible materials.

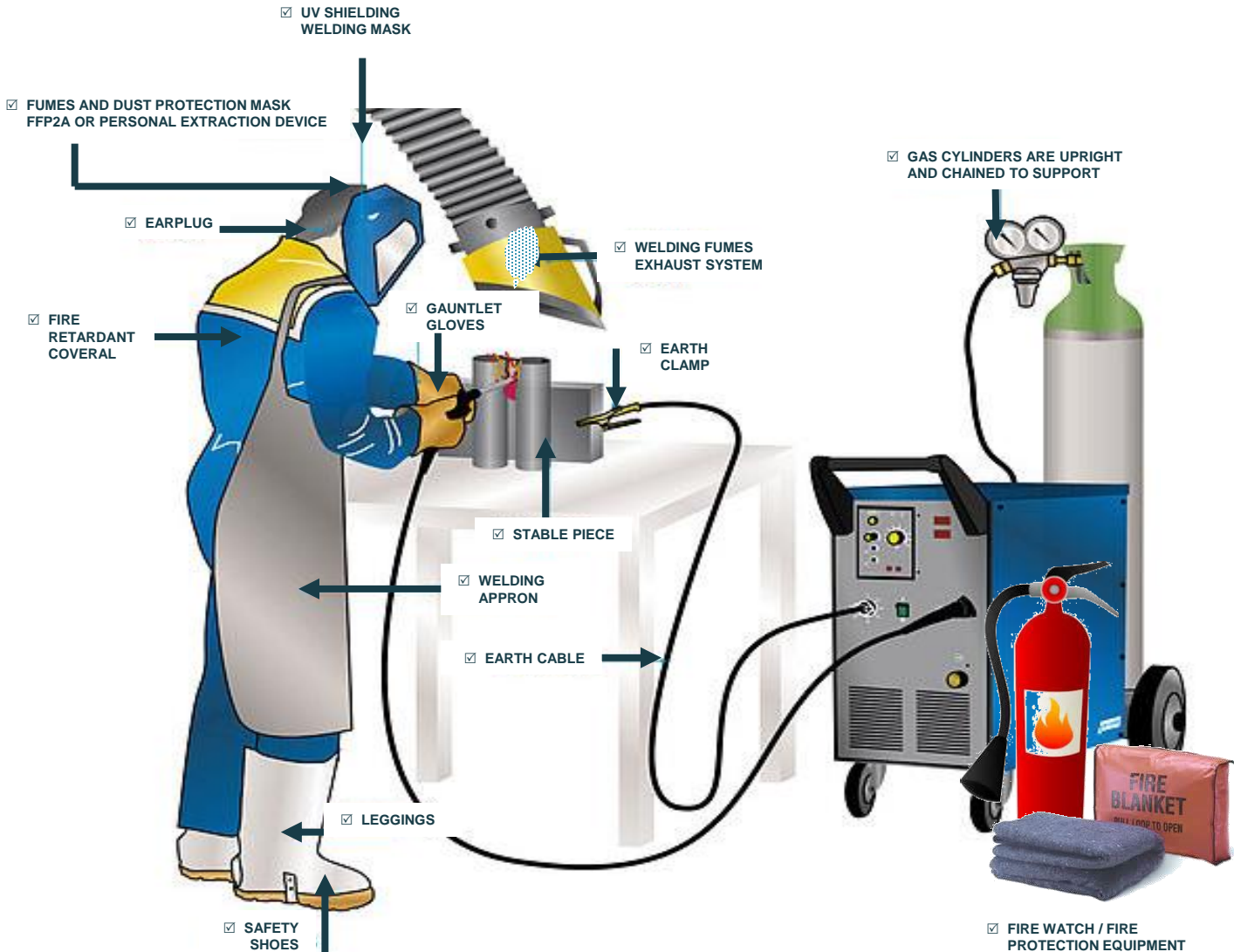
PPE



Consider the Following items: 考慮以下的事項

- ✓ Remove personal jewellery, in particular rings, bracelets and metallic watch straps before starting work.
- ✓ Plastic disposable cigarette lighters must not be kept in pockets whilst carrying out arc welding.
- ✓ Do not leave bare skin exposed to the rays of the welding arc.
- ✓ Gauntlets / gloves should be dry.
- ✓ Tidy and check your workplace.
- ✓ Erect screens around the welding area if possible.
- ✓ Remove any flammable material next to the welding area
- ✓ Never weld anything that may have held inflammable materials.
- ✓ Do not stand on damp or wet areas whilst welding.
- ✓ Review the hot work permit if available.
- ✓ Use only approved and registered welding equipment.
- ✓ Regularly INSPECT and TEST welding equipment to ensure they meet safe electrical standards.
- ✓ Check cables are in good condition
- ✓ In CONFINED SPACES use air-fed facemask or adequate forced ventilation.

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- ☑ COMPLETE THE HOTWORK CHECKLIST BEFORE USE
- ☑ HAVE A FIREWATCH TO CHECK FOR FIRES
- ☑ ALL CABLE LUGS TO BE SUITABLY INSULATED
- ☑ RETURN CABLE TO BE FITTED FROM THE WORKPLACE TO THE TRANSFORMER
- ☑ CONNECTION TO BOLTED OR FLANGED PIPELINES OR OVER ANY BOLTED CONNECTION IS NOT PERMITTED.
- ☑ EQUIPMENT AND CABLES/HOSES DO NOT GENERATE TRIPPING HAZARDS.



THE ELECTRODE HOLDER MUST ALWAYS BE ISOLATED (I.E. MACHINE UNPLUGGED) WHEN CHANGING THE ELECTRODE.