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AU07899

OCCUPATIONAL SAFETY & HEALTH PROGRAMME

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SAFE WORK INSTRUCTION

Task Operation: USE OF ACETYLENE		Form SW 005 Rev A	
Special Comments: This Procedure is to be used with any operating manuals or training relevant to the task. All Persons using this equipment must be fully trained in the working procedures			
All works to comply with Div 9 (Welding and Allied Processes) of Subdivision 3 of the Occupational Safety and Health Regulations 1996			
ACTIVITY	HAZARDS	HOW TO DO IT	PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS
Steps in order of Performance	Applicable to each step	Identify Equipment, Safety Quality and Performance Requirements	
Preparation	Explosion Burns Escaping Gas Fire	<ul style="list-style-type: none"> · Check plant for leaks by pressurising system to 100kpa, use pressure drop method and locate leaks with soapy water · Physically check hoses and fittings for damage · Check area for combustible materials e.g., petrol, oil, gas, grass, rags, carpet insulation etc · Only light with fuel gas with a flint lighter or pilot light (do not use gas disposable lighters) · Provide appropriate Fire Fighting Equipment for the task · Refer to manufacturer's chart for correct settings · If plant has been shut down for more than half an hour purge two seconds for every 5 metres of hose · Ensure bottles are upright and secure · Obtain a Hot Work Permit 	     
Flashback	Explosion Burns Escaping Gas Fire	<p>Recognition:</p> <ul style="list-style-type: none"> · Shrill hissing or squeaking · Smoke issuing from blowpipe tip <p>In case of Flashback:</p> <ul style="list-style-type: none"> · Close oxygen valve · Close fuel gas valve · Turn off cylinder valves <p>Flashback Arresters must be fitted at:</p> <ul style="list-style-type: none"> · The regulators of oxygen and acetylene cylinders · The blowpipe when hose length exceeds 10 metres · Outlet of banked cylinders 	
Backfire	Explosion Burns Escaping Gas Fire	Where persistent backfire occurs shut down and check for causes i.e., too close to work, dirty tip, loose nozzles, incorrect pressure, over heating tip	
Shut Down	Explosion Burns Escaping Gas Fire	<ul style="list-style-type: none"> · Close blowpipe fuel valve then oxygen valve · Close cylinder valves · Release gas from regulators and lines · Back off regulators · Check area for burning/smouldering material 	