



Lusail Real Estate Development Company

Health, Safety, Security, Environment, Logistics & Quality Department

Lusail Construction Safety Procedural Forms/Checklists – Lead Respiratory Protection Table

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Lead Respiratory Protection Table

Prior to Completion of Initial Exposure Assessments	
Lead-Related Task/Activity	Minimum Respirator Required^a
Manual demolition, scraping, sanding, heat gun use, power tools with dust collection and spray painting lead paint	<ul style="list-style-type: none"> ▪ Half mask respirator with HEPA cartridges^{b, c}
Use of lead mortar, lead burning, rivet busting, power tools without dust collection, grinding, clean up of dry abrasive grit, abrasive blasting enclosure removal or movement.	<ul style="list-style-type: none"> ▪ Loose fitting powered air purifying respirator (PAPR) with HEPA cartridges <li style="text-align: center;">or ▪ Loose fitting continuous flow, supplied air
Abrasive blasting, welding, cutting, torch burning	<ul style="list-style-type: none"> ▪ Half or full face supplied air in pressure demand or positive pressure mode
After Exposures Determined	
Airborne concentration of lead or condition of use	Required Respirator^a
Not in excess of 500 µg/m ³ (10 x PEL)	<ul style="list-style-type: none"> ▪ ½ mask air purifying respirator with high efficiency filters^{b, c} ▪ ½ mask supplied air respirator operated in demand (negative pressure) mode
Not in excess of 1,250 µg/m ³ (25 x PEL)	<ul style="list-style-type: none"> ▪ Loose fitting hood or helmet PAPR with high-efficiency filters^c ▪ Hood or helmet supplied air respirator operated in a continuous-flow mode, e.g., type CE abrasive blasting respirators operated in a continuous-flow mode
Not in excess of 2,500 µg/m ³ (50 x PEL)	<ul style="list-style-type: none"> ▪ Full facepiece air purifying respirator with high-efficiency filters^c ▪ Tight-fitting PAPR with high-efficiency filters^c ▪ Full facepiece supplied air respirator operated in demand mode ▪ ½ mask or full facepiece supplied air respirator operated in a continuous-flow mode ▪ Full facepiece self-contained breathing apparatus (SCBA) operated in demand mode
Not in excess of 50,000 µg/m ³ (1,000 x PEL)	<ul style="list-style-type: none"> ▪ ½ mask supplied air respirator operated in pressure demand or other positive-pressure mode
Not in excess of 100,000 µg/m ³ (2,000 x PEL)	<ul style="list-style-type: none"> ▪ Full facepiece supplied air respirator operated in pressure demand or other positive-pressure mode e.g., type CE abrasive blasting respirators operated in a positive-pressure mode
Greater than 100,000 µg/m ³ (2,000 x PEL) unknown concentration, or firefighting	<ul style="list-style-type: none"> ▪ Full facepiece SCBA operated in pressure demand or other positive-pressure mode
<p>^aRespirators specified for higher concentrations can be used at lower concentrations of lead.</p> <p>^bFull facepiece is required if the lead aerosols cause eye or skin irritation at the use concentrations.</p> <p>^cA high-efficiency particulate air filter (HEPA) is a filter that is 99.97% efficient against particles 0.3 µm or larger.</p>	