

TSC Category	Hazards Management					
TSC	Local Exhaust Ventilation System Management					
TSC Description	Apply design and qualitative approaches to assess the effectiveness, performance and compliance of the local exhaust ventilation systems					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		WPH-WSH-2066-1.1	WPH-WSH-3066-1.1	WPH-WSH-4066-1.1	WPH-WSH-5066-1.1	
		Inspect the local exhaust ventilation systems and compare their current performance against the performance standards written in the maintenance manuals	Assess the construction and commissioning of the systems to evaluate their performance against design specifications	Review the designs of the local exhaust ventilation systems to determine if they are able to remove airborne contaminants without harming the environment	Prepare written reports for evaluation and assessment on effectiveness and performance of the local exhaust ventilation systems	
Knowledge		<ul style="list-style-type: none"> • Functions of the main components of a local exhaust ventilation system • Troubleshooting procedures of local exhaust ventilation systems • Purposes of the local exhaust ventilation systems • Limitations of local exhaust ventilation systems • Legal and other requirements related to the local exhaust ventilation systems • Safety critical features of the local exhaust ventilation systems 	<ul style="list-style-type: none"> • Purposes and functions of the critical components of the local exhaust ventilation systems 	<ul style="list-style-type: none"> • Principles of ventilation • Principles of local exhaust ventilation system designs and fabrication • Engineering calculations 	<ul style="list-style-type: none"> • Principles of air flow, pressure, velocity and flow rate • Performance standards including capture velocity and duct velocity • Operation and limitations of testing instruments 	
Abilities		<ul style="list-style-type: none"> • Check the components of the local exhaust ventilation systems required for proper operation • Inspect the hood and/or enclosure and duct network • Inspect air cleaning 	<ul style="list-style-type: none"> • Assess the installation and construction of the local exhaust ventilation systems against the design specifications • Measure the air flow during operation of the local exhaust ventilation systems against their 	<ul style="list-style-type: none"> • Assess the local exhaust ventilation systems against their purposes, operation and environment • Assess the local exhaust ventilation system designs and ensure that they follow 	<ul style="list-style-type: none"> • Record system measurements relating to static pressure, duct velocity and/or airflow, face velocity and capture velocity • Analyse and interpret measurement results • Evaluate local exhaust 	

**SKILLS FRAMEWORK FOR WORKPLACE SAFETY AND HEALTH
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

		<p>devices</p> <ul style="list-style-type: none"> • Diagnose the performance of the local exhaust ventilation systems • Identify different types of contaminants • Determine potential sources of contaminants • Interpret legal and other requirements in accordance with the local exhaust ventilation systems' operation manuals • Evaluate good work practices 	<p>system designs</p>	<p>the procedures for system designs</p> <ul style="list-style-type: none"> • Assess the local exhaust ventilation system designs and/or models and ensure that they comply with system standards and legal requirements 	<p>ventilation system compliance in accordance with design standards</p> <ul style="list-style-type: none"> • Evaluate system defects under performance and unsafe operations 	
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