

Occupational Hygiene Professionals Singapore Workforce Skills Qualifications Competency Map

INDUSTRY KEY PURPOSE		The Occupational Hygiene (OH) Professionals Workforce Skills Qualifications Framework aims to develop competent and motivated Occupational Hygiene Professionals to assist employers, occupiers and other stakeholders improve health at the workplace through the anticipation, recognition, evaluation and control of occupational hygiene risks.				
Competency Categories		PHYSICAL HAZARDS MANAGEMENT	CHEMICAL HAZARDS & BIOLOGICAL HAZARDS MANAGEMENT	HUMAN FACTORS MANAGEMENT	ANALYTICAL, CONCEPTUAL AND EVALUATIVE SKILLS	INTERPERSONAL SKILLS
		Consists of activities involved in recognising and evaluating hazards arising from heat, cold, radiation, noise and vibration at the workplace. These hazards can cause varying forms of strain and injury to the body.	Consists of activities involved in recognising, evaluating and controlling hazards arising from exposure to chemical substances that may be hazardous to health of persons at work if inhaled, swallowed, or absorbed through the skin. These chemical substances may be present in the workplaces in solid, liquid or gaseous states. These skills extend to identifying hazards arising from exposure to substances of biological origin at the workplace. The sources of these hazards include bacteria, viruses, insects, plants, birds, animals, and humans, and their products which may present a potential risk to the health and well-being of humans.	Consists of activities involved in recognising, evaluating and controlling hazards arising from human-machine interface, job design, psychological and psychosocial variables at the workplace. These can cause injury to the worker's musculoskeletal system and also lead to psychophysical stress.	Develops ability to generate feasible, efficient and innovative solutions to solve work problems, enhance productivity and capitalize on new opportunities.	Develops ability to work and communicate effectively in a diverse team environment and negotiate for mutually beneficial outcomes
QUALIFICATION TITLE		WSQ SPECIALIST DIPLOMA IN OCCUPATIONAL HYGIENE (RECOMMENDED LEARNING HOURS: 308 - 344 HOURS) (31 CV – 35 CV) Eight (8) Core Units + Two (2) Electives Units from Physical Hazards Management <u>OR</u> Chemical and Biological Hazards Management Competency Categories <u>AND</u> One (1) Elective Unit from Analytical, Conceptual & Evaluative Skills <u>OR</u> Interpersonal Skills Competency Category				
Job Role	Typical Job Titles	PHYSICAL HAZARDS MANAGEMENT	CHEMICAL HAZARDS & BIOLOGICAL HAZARDS MANAGEMENT	HUMAN FACTORS MANAGEMENT	ANALYTICAL, CONCEPTUAL AND EVALUATIVE SKILLS	INTERPERSONAL SKILLS
Occupational Hygiene (OH) Officer	<ul style="list-style-type: none"> Confined Space Safety Assessor Radiation Safety Officer L5/L6 (non-NDT work) Licensee N3 Licensee HS Licensee Competent Person for Sampling and Monitoring of Airborne Contaminants Competent Person for Management of Hazardous Substance Competent Person for Asbestos Survey Competent Person for Asbestos Removal Noise Monitoring Officer Noise Control Officer 	Core Units (248 Hrs) (25 CV) OH-GE-501C-1 Interpret Basic Workplace Health Practices (40 Hrs) OH-PH-501C-1 Monitor Noise and Vibration (24 Hrs) (2 CV) OH-PH-502C-1 Control Noise and Vibration (16 Hrs) (2 CV)	OH-CB-501C-1 Measure Exposure and Assess the Risks due to Hazardous Substances (40 Hrs) (4 CV) OH-CB-502C-1 Evaluate Health Effects due to Hazardous Substances (40 Hrs)(4CV) OH-CB-503C-1 Manage Hazardous Substances (40 Hrs) (4CV)	OH-HF-501C-1 Evaluate Ergonomics-Related Hazards (40 Hrs) (4CV)		OH-NT-501C-1 Compose Technical Report (8 Hrs) (1 CV)
		Elective Units OH-PH-503E-1 Assess and Control Thermal Stressors (40 Hrs) (4 CV) OH-PH-504E-1 Manage Radioactive Materials and Irradiating Apparatus (30 Hrs) (3 CV) OH-PH-505E-1 Control Hazards in Handling Laser Devices (20 Hrs) (2 CV)	OH-CB-505E-1 Manage Skin Exposure Risks (40 Hrs) (4 CV) OH-CB-506E-1 Assess Confined Space for Safe Entry and Work (40 Hrs) (4 CV) OH-CB-507E-1 Manage Indoor Air Quality (28 Hrs) (3 CV) OH-CB-508E-1 Evaluate and Control Biological Hazards (24 Hrs) (2 CV) OH-CB-509E-1 Survey Asbestos and Other Fibres Risks at the Workplace (32 Hrs) (3 CV) OH-CB-510E-1 Remove Asbestos from the Workplace (32 Hrs) (3 CV)		ES-ACE-402G-1 Solve Problem and Make Decision at Managerial Level (16 Hrs) (2 CV) ES-ACE-501G-1 Apply Systems Thinking in Problem Solving and Decision Making (16 Hrs) (2 CV)	ES-IP-401G-1 Lead Workplace Communication and Engagement (16 Hrs) (2 CV) WP-IC-505E-1 Plan, Prepare for and Deliver Presentations (16 Hrs) (2 CV)

Table 1: Occupational Roles/Competent Persons Regulated by MOM/NEAⁱ

Competency Units	RLH	Credit Value	Equivalent Courses Approved by MOM/NEA	
			Unit Title	Duration (hours)
Core Units				
OH-GE-501C-1 Interpret Basic Workplace Health Practices (40 Hrs) (4 CV)	40	4		
OH-PH-501C-1 Monitor Noise and Vibration (24 Hrs) (2 CV)	24	2	Noise Monitoring Course (Transited from MOM on 1 January 2013)	24
OH-PH-502C-1 Control Noise and Vibration (16 Hrs) (2 CV)	16	2	Industrial Noise Control Course (Transited from MOM on 1 January 2013)	20
OH-CB-501C-1 Measure Exposure and Assess the Risks due to Hazardous Substances (40 Hrs) (4 CV)	40	4	Sampling & Monitoring of Airborne Contaminant (Transited from NEA on 1 January 2014)	24
OH-CB-502C-1 Evaluate Health Effects due to Hazardous Substances (40 Hrs) (4CV)	40	4	-	-
OH-CB-503C-1 Manage Hazardous Substances (40 Hrs) (4CV)	40	4	Management of Hazardous Substances	28
OH-HF-501C-1 Evaluate Ergonomics-Related Hazards (40 Hrs) (4CV)	40	4	-	-
OH-NT-501C-1 Compose Technical Report (8 Hrs) (1 CV)	8	1	-	-
Elective Units				
OH-PH-503E-1 Assess and Control Thermal Stressors (40 Hrs) (4 CV)	40	4	-	-
OH-PH-504E-1 Manage Radioactive Materials and Irradiating Apparatus (30 Hrs) (3 CV)	30	3	Basic Ionising Radiation Safety (General) Course	16
OH-PH-505E-1 Control Hazards in Handling Laser Devices (20 Hrs) (2 CV)	20	2	Basic Laser Radiation Safety Course	16
OH-CB-509E-1 Survey Asbestos and Other Fibres Risks at the Workplace (32 Hrs) (3 CV)	32	3	Asbestos Removal and Management (Transited from NEA on 1 January 2014)	16
OH-CB-510E-1 Remove Asbestos From Workplace (32 Hrs) (3 CV)	32	3	-	-
OH-CB-505E-1 Manage Skin Exposure Risks (40 Hrs) (4 CV)	40	4	-	-
OH-CB-506E-1 Assess Confined Space for Safe Entry and Work (40 Hrs) (4 CV)	40	4	Confined Space Safety Assessor Course (Transited from MOM on 1 January 2013)	39
OH-CB-507E-1 Manage Indoor Air Quality (28 Hrs) (3 CV)	28	3	Management of Indoor Air Quality (Transited from NEA on 1 January 2014)	20
OH-CB-508E-1 Evaluate and Control Biological Hazards (24 Hrs) (2 CV)	24	2	-	-
ES-IP-401G-1 Lead Workplace Communication and Engagement (16 Hrs) (2 CV)	16	2	-	-
ES-ACE-402G-1 Solve Problem and Make Decision at Managerial Level (16 Hrs) (2 CV)	16	2	-	-
ES-ACE-501G-1 Apply Systems Thinking in Problem Solving and Decision Making (16 Hrs) (2 CV)	16	2	-	-
WP-IC-505E-1 Plan, Prepare for and Deliver Presentations (16 Hrs) (2 CV)	16	2	-	-

ⁱ The OH Professionals WSQ Framework is largely referenced to the courses accredited by Ministry of Manpower (MOM) and National Environment Agency (NEA)

ⁱⁱ RLH: Recommended Learning Hours: This refers to the total hours of competency-based training and assessment, taking into account the time required for directed learning activities.