



# PERFORM MANHOLE SAFETY ASSESSMENT (PMSA)

## For Whom

This course is designed for personnel appointed to perform gas testing in confined spaces/manholes prior to entry/work and periodically to ensure the atmosphere in the confined spaces/manholes is safe for continuous occupancy.

## For Whom

The course would be appropriate for individuals with job titles such as: project managers, project directors, construction managers, project engineers in the construction industry.

## Entry Requirement

Employability Skills (ES) Workplace Literacy level 4 and above.

- Be able to manipulate numbers at a proficiency level equivalent to ES Workplace Numeracy level 4 and above.
- Upon successful completion of the
  - i) WSQ Supervise Work in Confined Space Operation (formerly known as Safety Instruction Course (Manhole) for Supervisor) or
  - ii) WSQ Supervise Construction Work for Workplace Safety and Health (formerly known as Building Construction Supervisors Safety Course) with at least 3 years of relevant experience in confined spaces/manholes

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## Course Overview

- Explain the legal requirements on confined space/manhole work as stipulated in the WSH Act, WSH (Confined Spaces) Regulations, WSH (Construction) Regulations, WSH (Shipbuilding and Ship repairing) Regulations, SS 568:2011
- State the duties and responsibilities of entrants, attendants, supervisors, confined space safety assessors, rescue personnel and authorized managers under the WSH legislation and guidelines.
- Equip with knowledge on atmospheric, physical and biological hazards associated with confined spaces/manholes and the consequences of exposure to these hazards
- Conduct risk assessment to identify, assess the hazards and risk control measures working in confined spaces/manholes.
- Implement an effective confined space entry permit system in relation to WSH (Confined Spaces) Regulations and WSH (Construction) Regulations
- Perform appropriate gas testing procedure for atmospheric hazards or obtain representative atmospheric measurements of the confined space conditions, in line with gas monitoring protocol and a systematic approach of working in confined spaces/manholes.
- To explain the types of prevention and control of confined space/manhole hazards with regard to sludge removal, purging and ventilation of confined space/manhole for entry or continuous occupancy.
- Perform appropriate gas testing procedures for atmospheric, physical and biological hazards.
- Propose gas monitoring instruments to obtain representative atmospheric measurements.
- Propose periodic monitoring schedule for atmospheric hazards based on typical manhole connected to sewage tunnels.
- Record and interpret the gas measurement results.
- Select the appropriate personal protective equipment (PPE) fit for use for confined spaces/manhole activity 9 MOM Technical Notes v1.0 – MSAC.
- Maintain the PPE in good condition and proper storage area.
- Communicate the emergency response plan and the components for safe rescue and evacuation.
- Identify the causes of confined spaces/manholes incidents and list the learning points.

## Course Content

- Legislative requirements under WSH (Confined Spaces) Regulations, WSH (Construction) Regulations, WSH (Shipbuilding and Shiprepairing) Regulations, SS 568:2011.
- Duties and responsibilities of all personnel involved in confined space and related work.
- Types of Confined Spaces/Manholes Hazards – Atmospheric Hazard (Part A).
- Types of Confined Spaces/Manholes Hazards – Physical and Biological Hazards (Part B).
- Confined Space/Manhole Entry Permit System.
- Types of Gas Monitoring Instruments – Applications and Limitations.
- Prevention and Control of Confined Spaces/Manholes Hazards.
- Accident Case Studies on Confined Spaces/Manholes.
- Gas Testing Procedures – Part A, Part B and Part C.
- Selection, use, fit and maintenance of personal protective equipment for working in confined spaces/manholes.
- Communication and Emergency Response Plan.

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## Course Duration

30 hours comprising theory (15 hrs), practical (12 hrs), assessments (3 hrs).

## Medium of Instruction

English

## Teaching Methodology

Face to Face class room teaching.

The following blended learning methods are applied to maximize the learning outcome:  
Login to the Eversafe Academy e-learning platform and self-study from anyplace.

Presentation slides

Watch the video

Self-assessment

Forum discussion

## Learning Environment

Our ergonomically designed class rooms are fully air-conditioned, equipped with white boards; audio/video equipment's & free wi-fi

## Qualification or experience of facilitators

A facilitator and assessor of this course will possess the following:

Specialist Diploma in Workplace Safety and Health

At least 5 years of relevant industry experience as a supervisor / foreman / safety personnel, of which:

Theory training: Registered WSH Officer or WSH Personnel with at least 3

year of experience in confined space/manhole and related areas.

Practical training: (i) Registered WSH Officer or WSH Personnel with at

least 3 year of experience in confined space/manhole and related areas,

and (ii) personnel who possess extensive knowledge in the usage,

maintenance and calibration of gas detectors

Advanced Certificate in Training and Assessment (ACTA) or Diploma in Adult Continuing Education (DACE)

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## Key Person In charge

Mr. Monish V (General Manager – Corporate Support Division)

## Class Size

Maximum 20

## Facilitator/Learner Ratio

1:20 for Theory Lesson & Assessment

## Course Attendance

100% Attendance

## Assessment Advice

3 hour written assessment comprising multiple choice questions (MCQ), short answer questions and assignments.

The passing mark for written assignment is 70% while for PP, learner will be assessed as Competent as C or Not yet Competent as NYC (100% pass for all the practical components is required). The learner must pass BOTH parts of the Test in order to be issued with the certificate of successful completion and or safety pass/card. Failure to pass either of the tests shall render a "Fail" for WT and "Not Yet Competent" for PP outcome for the learner and he must then re-attempt the course and tests

## Course Fee

S\$436.00

## Funding & Claims

1. Skill future credit/funding available  
SFC:

-All Singaporeans aged 25 and above can use their \$500 SkillFuture Credit from the government to pay for a wide range of approved skills-related courses. visit the SkillsFuture Credit website ([www.skillsfuture.sg/credit](http://www.skillsfuture.sg/credit)) to choose from the courses available on the Training Exchange course directory

**Mandatory adoption of e-attendance via SingPass from 1 October 2023:** As per the SSG regulation we are introducing "e-attendance via SingPass," for participants applying for funding. To ensure a smooth process, please verify your SingPass app access before attending the course. Kindly note that manual attendance submissions will not be accepted for funding invoices. Thank you for your cooperation.

SkillsFuture Singapore Hotline: For enquiries relating to skills, training and portal issues, please contact SkillsFuture Singapore at 6785 5785

2. UTAP

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## PERFORM MANHOLE SAFETY ASSESSMENT (PMSA)

Type	Category of Individuals		
	Singapore Citizens and Singapore Permanent Residents	Employer-sponsored and Self-sponsored Singapore Citizens aged 40 years old and above	SME-sponsored local employees (i.e. Singapore Citizens and Singapore Permanent Residents)
	Funding source		
	Skillsfuture funding (Baseline)	Singapore Mid-career Enhanced Subsidy	Skillsfuture Enhanced Training Support for SMEs
Course Fee	\$400.00	\$400.00	\$400.00
Skillsfuture Funding	\$200.00	\$280.00	\$280.00
Total Nett Fee	\$200.00	\$120.00	\$120.00
GST (9% * \$400)	\$36.00	\$36.00	\$36.00
<b>Total Fee Payable to the Training Provider</b>	<b>\$236.00</b>	<b>\$156.00</b>	<b>\$156.00</b>

### Certification

Based on the successful completion of the course and assessment, a Statement of Attainment (SOA) from the Skillsfuture Singapore (SSG) and a Safety Pass from Eversafe Academy Pte. Ltd. will be awarded to the trainee.

E-cert available

### Renewal Points for professionals

SDU Points: NA

### Course Venue

3 Soon Lee Street, #04-14/16&17, Pioneer Junction, Singapore-627606  
2, Joo Koon Road, Singapore-628966

### Registration Venue

No. 2, Kampong Kapur Road, Little India, Near Jalan Besar, MRT Station Exit B, Singapore - 208674

No. 3, Soon Lee Street, #04-14/16 & 17, Pioneer Junction, Singapore - 627606.

No. 2, Joo Koon Road, Singapore - 628966.

No. 2, Wan Lee Road, Singapore - 627934.



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