

# Perform Ultrasonic Inspection (Advanced)

Course Code: TGS-2018501485

Course Validity: 01 Jan 2019 – 27 Aug 2026

Version 2.0

## Who Should Attend:

*Welding /  
Production  
Supervisors;  
Welders; NDT  
Technicians; QC  
Inspectors;  
Mechanical  
Engineers; Quality  
Managers,  
Supervisors.*

Language ability:  
*English*

Educational level:  
*Min. O-Level*

Learning Style:  
*Classroom Training  
& Practical*

## Entry Requirements:

*Age: 16 years and  
above*

Organization

Experience:  
*Minimum 9 months*



## About This Course:

Take your ultrasonic inspection skills to the next level. This advanced course is designed for experienced UT personnel who wish to perform complex inspections on critical components. Participants will gain expertise in flaw characterization, defect sizing, and advanced signal analysis in accordance with international codes and standards.

## What You'll Learn

This course will teach you the duties and responsibilities of a UT inspector including,

- Probe and technique optimization
- Calibration and advanced sensitivity control
- Flaw sizing and characterization
- Signal analysis and interpretation
- Evaluation to international standards
- Professional technical reporting
- Safety and ethical responsibilities



## Learning Unit:

- Introduction to UT and safety
- Principles of ultrasonic inspection
- Equipment used in ultrasonic inspection and their functions
- Standards of ultrasonic inspection used by the industry
- Types and function of probes and ultrasonic equipment
- Setting up and calibrating equipment
- Prepare Test Components for Ultrasonic Inspection
- Perform Ultrasonic Inspection
- Interpret and Evaluate Ultrasonic Test Result
- Documentation
- Post-Inspection Activities and Improve Work Processes

## Assessment & Certification

- Assessment Method: Written test and practical assessment
- Accreditation: WSQ / SSG accredited



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## Certificate Obtained and Conferred by:

Participants who complete course with at least 75% attendance and demonstrate competency during assessment will receive a Certificate of Completion by Cutech Training Center and a WSQ Statement of Attainment (SOA) issued by SkillsFuture Singapore.

## Course Fee & Funding

## Course Duration & Schedule

- ✓ Total Duration: **87 Hrs**
  - Theory: 30 hours
  - Practical: 50 hours
  - Assessment: 7 hours
- ✓ Schedule:
  - Full-Time : 08:30am to 05:30pm
  - Part-Time : 06:00pm to 10:00pm
- ✓ Mode of Training : Class-room

FULL FEE	SELF-SPONSOR		COMPANY SPONSOR	
	NORMAL	MCE (Mid-career Enhanced Subsidy)	MNC COMPANY (Normal)	SME COMPANY (Enhanced Training Support for SMEs)
For Singapore Citizens / PRs / Foreigners	For Singapore Citizens* <b>Aged between 21 and 39 Yrs</b> For Singapore PRs <b>Aged 21 Yrs &amp; Above</b>	For Singapore Citizens* <b>Aged 40 Yrs &amp; above</b>	For Singapore Citizens / PRs <b>Aged 21 Yrs &amp; Above</b>	For Singapore Citizens / PRs <b>Aged 21 Yrs &amp; Above</b>
<b>S\$ 2000</b> <b>+ S\$ 180 (9%GST)*</b>	<b>S\$ 1000</b> <b>+ S\$ 180 (9%GST)*</b>	<b>S\$ 600</b> <b>+ S\$ 180 (9%GST)*</b>	<b>S\$ 1000</b> <b>+ S\$ 180 (9%GST)*</b>	<b>S\$ 600</b> <b>+ S\$ 180 (9%GST)*</b>

### Funding Notes:

- ✓ SSG funding is applicable to eligible Singapore Citizens / PRs and subject to meeting attendance and assessment requirements.
- ✓ Absentee Payroll (AP) Funding available for eligible SMEs.
- ✓ Funding eligibility is subject to SSG approval and meeting attendance and assessment requirements.
- ✓ The GST amount is payable for the full course fee before any grant is applied
- ✓ CUTECH reserves the rights to amend any details relating to the programme without prior notice.

### Additional Information:

Go to <https://training.cutechgroup.com> under useful Links for **Post-course support**, Technical Support, **Refund / withdrawal policy**, Course Material and **payment information**.

### Course Date & Contact:

- Registration Link / QR Code:  
<https://training.cutechgroup.com/schedule>
- Myskillsfuture reference link : [click here](#)
- Phone: +65 8890 9062, +65 9758 3097, +65 6262 6614
- Email [training@cutechgroup.com](mailto:training@cutechgroup.com)



Get Certified - Upskill and Reskill for Career Growth!