

รูปแบบการอบรม **Hybrid Training**  
 คอร์สเรียนออนไลน์ + WorkShop ภาคปฏิบัติ

## Ultrasonic Testing Level I-II (80 hrs.)

Certification training course according to ASNT: SNT-TC-1A  
 Standard Topical Outlines for Qualification of NDT Personnel ANSI\_ASNT- CP 105

Unit	Learning Methods
<p><b>Part A: General Theory (32 hrs.)</b></p> <ul style="list-style-type: none"> <li>❑ Principles of ultrasonic</li> <li>❑ Equipment A-scan, B-scan, C-scan and Computerized</li> <li>❑ Testing techniques</li> <li>❑ Calibration (Straight beam, Angle beam and resonance)</li> <li>❑ Evaluation of Base-Material Product Forms Plate and sheet, Pipe and tubular products, Forgings, Castings and Composite structures</li> <li>❑ Evaluation of Weldments</li> <li>❑ Evaluation of Bonded Structures</li> <li>❑ Discontinuity Detection</li> <li>❑ Sensitivity to reflections, Resolution</li> <li>❑ Determination of discontinuity size (6 dB drop) Two-dimensional testing techniques Signal patterns, Location of discontinuity</li> </ul>	<p>คอร์สเรียนออนไลน์                      +                      ระบบพี่เลี้ยง                      สรุปสดผ่าน Zoom</p>
<p><b>Part B: Specific Theory (16 hrs.)</b></p> <ul style="list-style-type: none"> <li>❑ Evaluation, Comparison procedures Standards and references Amplitude, area and distance relationship Application of results of other NDT method</li> <li>❑ Applicable code interpretation</li> <li>❑ Type of discontinuity and location</li> </ul>	<p>คอร์สเรียนออนไลน์                      +                      ระบบพี่เลี้ยง                      สรุปสดผ่าน Zoom</p>
<p><b>Part C: Practical (32 hrs.)</b></p> <ul style="list-style-type: none"> <li>❑ UT Equipment &amp; Inspection</li> <li>❑ Welding Defects Indications &amp; Interpretation</li> <li>❑ Recording and Reporting</li> </ul>	<p>คอร์สฝึกออนไลน์                      Workshop                      ภาคปฏิบัติ</p>
<p><b>Examination (General, Specific, Practical) (5 hrs.)</b></p>	

Course Director and Professional Instructor Team:

Assit.Prof.Dr. Ritttichai Phaoniam,

ASNT NDT Level III (Cert. No. 179579)  
 International Welding Engineer (IWE, IIW)

**Welding Inspector-CSWIP3.1, AWS-CWI**