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**BATEN RABEH**  
TRAINING SERVICE

### Course Information Sheet

<b>Course Title</b>	ASME B31.12
<b>Duration</b>	8 DAYS
<b>Course Description</b>	Design and Operation of Hydrogen Pipeline Systems with Material Testing According to ASME B31.12.
<b>Course Outlines</b>	<p>Understanding the Code and Industry Requirements:</p> <p>Overview of ASME B31.12 structure and its application in hydrogen transportation systems.</p> <p>Pipeline Materials and Material Testing:</p> <p>Selection and testing of materials suitable for hydrogen transportation.</p> <p>Tests for tensile strength, bending, and impact on materials.</p> <p>Design of Hydrogen Pipeline Systems:</p> <p>Analysis of hydrogen transportation system requirements and appropriate cooling technologies.</p> <p>Design of systems based on hydrogen pipeline transportation.</p> <p>Manufacturing and Welding Operations:</p> <p>Welding requirements for hydrogen pipelines. And kit for engineering innovation procedure</p> <p>Inspection and testing of welding, particularly to ensure the safe transportation of hydrogen.</p> <p>Hydrogen Transportation Tests:</p> <p>Leak tests to ensure no hydrogen leakage.</p> <p>Hydrodynamic tolerance tests to ensure pipeline endurance under hydrogen transport pressures.</p> <p>Operation and Maintenance of Hydrogen Pipeline Systems:</p> <p>Setup and operation of systems to meet production needs and ensure safe hydrogen transportation.</p> <p>Maintenance strategies for systems in the context of hydrogen transportation.</p> <p>Case Study:</p> <p>Analysis of a practical case for the design and operation of a hydrogen pipeline system.</p>
<b>Training Methodology</b>	<p>Presentations.</p> <p>kit Algeria procedure</p> <p>Video.</p> <p>Hard copy.</p> <p>Soft copy data</p>