

NDT skills needs and education scene in Asia

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Non-Destructive Testing (NDT) plays a pivotal role in ensuring the safety and integrity of critical infrastructure across various industries. As technological advancements continue to reshape the landscape of NDT, it becomes imperative to examine the trends in NDT education at universities and higher learning institutions in the Asian region. This abstract provides a comprehensive overview of the key findings from an extensive research study conducted to analyze the current state of NDT education in Asia. The study encompasses a thorough review of NDT curricula, teaching methodologies, and practical training approaches employed by universities and higher learning institutions across Asia. It also explores the integration of emerging technologies, such as artificial intelligence, robotics, and advanced sensors, in NDT education. Furthermore, the research investigates the alignment of NDT education programs with industry demands and standards. Key trends identified in NDT education include a shift towards interdisciplinary programs that combine NDT with other engineering disciplines, an increasing emphasis on hands-on practical training using state-of-the-art equipment, and the incorporation of virtual simulations to enhance learning experiences. Additionally, the study highlights the importance of fostering collaborations between academia and industry to bridge the gap between theoretical knowledge and practical application. The abstract concludes by emphasizing the need for continuous updates to NDT curricula to keep pace with technological advancements and industry requirements. It underscores the importance of nurturing a skilled workforce in the Asian region to meet the growing demand for NDT professionals and ensure the safety and reliability of critical infrastructure. This research provides valuable insights into the evolving landscape of NDT education in Asia, enabling universities, higher learning institutions, and industry stakeholders to adapt and prepare future NDT professionals for the challenges of tomorrow.