

Non-Destructive Testing (Ndt) Teaching Implementation in Vocational Colleges: Perspective from Industry Experts.

- **Author(s):** Siti Nurranisah Abdul Rahim ,Nur Hazirah Noh@Seth ,Muhamad Afzamiman Aripin ,Mohamad Rasidi Pairan
- **Abstract:** Non-Destructive Testing (NDT) have been long introduced in vocational colleges (VCs) in welding technology courses focusing on post-weld inspection. The NDT careers are on the surge, and these fields are continually advancing according to Malaysia Bureau of Labour Statistic. Several previous studies on the lack of skills possessed by TVET graduates have been conducted, all of which present evidence on the mismatch between skills outlined by industry and ineffective curriculum. However, none of these studies concentrate on VC graduates or welding technology courses in Malaysia. The purpose of this study is to identify the expected implementation and suggestion of teaching and learning of NDT based on industrial needs in VCs from the perspective of industry experts. The present study opted qualitative research design where a series of interview was administered to four industry experts. The interview protocol was verified and validated prior to the interview session. The present study has identified five elements that are relevant and necessity in implementing teaching and learning NDT based on industrial needs; Function of MPT and DPT tools and equipment, Implementation of MPT and DPT tools and equipment operation, Technique of the MPT and DPT tools; equipment operation, MPT and DPT tools; equipment storage skills and MPT and DPT tools; equipment maintenance skills. The suggestions are improvement in VCSC to meet the industry demand, engagement with NDT industry and soft skills and computer skills need to be added in VCSC.
- **Keywords:** Bureau of Labour Statistic, NDT industry, Non-Destructive Testing (NDT)