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It is a crucial aspect of quality control and ultimately health and safety.  Common or conventional methods include visual testing, penetrant testing, magnetic particle testing, radiographic testing and ultrasonic, acoustic emission, ToFD, Phased Array testing and each have their advantages and disadvantages. With advancements in digital control and imaging, other techniques have been developed including phased array ultrasonic testing, time of flight diffraction. | | | |  | | | | | |  |  |  | | --- | --- | --- | | **Learning Outcomes** | **Assessment Criteria** | **Assessment Methods** | | Importance of NDT in quality assurance   * Concept of quality assurance. * Importance of NDT * Importance of test timing * Goals of NDT apllication * How do we make testing friendly design? * Commonly used NDT methods. * Qualification and certification of NDT personnel | The Assessment Criteria for UT Level 2 is described below.  The student will learn all the information about the UT Method, whatever training he has completed.  If it is successful in the exams to be held after each training; will have a new profession that Ultrasonic Test Specialist, will have International NDT Personnel Certification according to EN ISO 9712 standard. He will find work opportunities both in his country and in the world with this certificate. | The Assessment Method for UT Level 2 is described below.  To be eligible for each learning outcome (LO), the candidate shall obtain a minimum grade of 70 % in each part of the examination (general, specific, and practical). In addition, for the practical examination, a minimum grade of 70 % shall be obtained for each specimen tested, and for the NDT instruction, as applicable.  Level 2 does include general, specific, and practical examination. | | **Ultrasonic Testing UT**   * On annex, UT Ultrasonic Test\_Level 1, 2 and 3\_Learning Outcomes | **At the end of this course Learners will:**  **An individual trained to Level 2,**  to perform UT according to UT procedures.  a) be able to select the UT technique for the testing method to be used;  b) be able to define the limitations of application of the testing method;  c) be able to translate UT codes, standards, specifications, and procedures into UT instructions adapted to the  actual working conditions;  d) be able to set up and verify equipment settings;  e) be able to perform and supervise tests;  f) be able to interpret and evaluate results according to applicable standards, codes, specifications or procedures;  g) be able to carry out and supervise all tasks at or below Level 2;  h) be able to provide guidance for personnel at or below Level 2;  i) be able to report the results of UT. | **An individual trained to Level 2,**   * perform the ultrasonic test * select the ultrasonic method as conventional, PA or ToFD * define the limitations of ultrasonic test * translate UT Test codes, standards, specifications, and procedures * perform and supervise ultrasonic test * interpret and evaluate results * carry out and supervise all tasks * provide guidance for Level 1   **Annex 3**  Written and practical examination for all methods and levels | | | | | | **Training** | | | | | Total Training Hours & Days | |  |  |  |  | | --- | --- | --- | --- | | Method | Level 1 | Level 2 | Level 3 | | UT | 40 h | 80 h | 40 h | | | | | Fees per training hour | See annex 1 for training fees | | | | Recommended Entry | Training hours are minimum mandatory training hours. Reductions are possible in line with ISO 9712, item 7.2.5. | | | | Who should attend or potential job occupation | Suitable for NDT personnel, inspectors and technicians, NDT courses offer a wealth of knowledge if individual involved with or responsible for the inspection of castings, forgings and welds in manufacturing or in-service testing across all industry sectors.  There is no limitation for candidates to join the program but education level may allow to reduction on training hours. | | | | Topics / Content outline | Generally, eight NDT methods. Detailed content will be shared upon request for each NDT method. | | | | Learning and Training Strategies | Theoretical and practical training is provided during each method. | | | | Health and Safety Consideration | Basic HSE should be taken during trainings. Hazardousness is depends to methods. | | | | Feasibility study for the program if available | Not available. | | | | Linked Program if available | Training centers are allowed to determine their own programme upon approval of TÜV AUSTRIA | | | | Refund policy | Non-refundable | | | | Complaint and Appeal Policy | See Annex 2 | | | | Quality Assurance for the program / organization | TÜV AUSTRIA has EN ISO/IEC 17024 accreditation certificate of certification of persons to provide exams for NDT methods. It is an assurance for the training and examination programme. | | | | Training Staff to deliver the program | Training staff should be provided by authorized training body. | | | |
| **Examination** |
| **Annex 3** |

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| **\*For Official Use (This Box Should not be Fill to Avoid any Delay in the Process)** |
| **\*\*Training Code & Field**   |  |  | | --- | --- | | 001 Occupational Health & Safety | 002 Commercial and Administrative | | 003 Information Technology  005 Travel and Tourism Catering and Hospitality  007 Communication Skills and Languages | 004 Engineering  006 Beautician Programs  008 Others | |  |  | |