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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 1 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 Operator, 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 1 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 1 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 1,**  Be able to carry out UT according to written instructions and under the supervision of Level 2 or Level 3 personnel.  Within the scope of the competence defined on the training, be able to perform the following in accordance with UT instructions:  a) set up UT equipment;  b) perform the tests;  c) record and classify the results of the tests according to written criteria;  d) report the results. | **An individual trained to Level 1,**   * read and understand the Ultrasonic Test Procedure or Instruction * set up the Ultrasonic Equipment, connect the probes, perform the verify of characteristics on the calibration block * perform the test * classify the results * issue the report according to written criteria;   **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 | |  |  | |