

# Non-Destructive Test Technician

Performs non-destructive tests (NDT) on materials, manufactured items, or components. Inspects metallic and nonmetallic materials, parts and assemblies for defects using automated and manual methods and techniques including radiography, ultrasound, penetrant, eddy current, laser shearography and magnetic particle. Requires certifications in non-destructive testing in accordance with regulations.

Level 1		Level 2		Level 3		Level 4	
Non-Destructive Test Technician I		Non-Destructive Test Technician II		Non-Destructive Test Technician III		Sr. Lead Non-Destructive Test Technician	
Knowledge	Little or no knowledge of the job. Moderate understanding of general job aspects and some understanding of the detailed aspects of the job.	Full knowledge of the job. Substantial acquaintance with and understanding of general aspects of the job with a broad understanding of the detailed aspects of the job.		Considerable knowledge of the job. Complete acquaintance with, and understanding of, the general and detailed aspects of the job and their practical applications to problems and situations ordinarily encountered.		Extensive knowledge and comprehensive acquaintance with, and understanding of, both general and specific aspects of the job and their practical application to complex problems and situations ordinarily encountered.	
Supervision Received	Close supervision involving detailed instructions and constant checking on work performance.	General supervision and instructions given for routine work and detailed instructions given for new activities or special assignments.		Limited supervision. No instructions needed on routine work and general instructions given on new lines of work or special assignments.		Minimal supervision. Work may be done without established procedures.	
Consequence of Errors	Errors can be easily and quickly detected within the immediate work unit and would result only in minor disruption or expense to correct.	Errors may be detected and corrected but may cause moderate loss of time or customer/user dissatisfaction.		Errors may be difficult to detect and would normally result in loss of customer business, material or equipment to resolve.		Errors are very difficult to detect and would normally require significant expenditures to resolve.	
Contacts	Contacts are primarily within immediate work unit. Contacts involve obtaining or providing information requiring little explanation or interpretation.	Contacts are typically with individuals within own department and occasionally with contacts outside own organization. Contacts involve obtaining or providing information or data requiring some explanation or interpretation.		Contacts are frequently with individuals representing other departments and/or representing outside organizations. Contacts involve obtaining or providing information or data on matters of moderate importance to the function of the department or which may be of sensitive nature.		Contacts are frequent with individuals representing outside organizations and/or individuals of significant importance within the company. Contacts involve planning and preparation of the communications, require skill, tact, persuasion and/or negotiation to accomplish the objectives of the communication.	

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<b>Work Products (Examples may include but are not limited to)</b>		Knowledge to set up and standardize equipment, conducts tests, per written and verbal instructions as required. Thoroughly familiar with the scope and limitations of the technique/method in which they are certified. Familiar with codes, standards and other contractual documents that control the method. Knowledge of product manufacturing and inspection technology. Assist in the design special test fixtures and test setups.		Knowledge to set up and standardize equipment, conducts tests, per written and verbal instructions as required. Thoroughly familiar with the scope and limitations of the technique/method in which they are certified. Familiar with codes, standards and other contractual documents that control the method. Knowledge of product manufacturing and inspection technology. Assist in the design special test fixtures and test setups. Ultrasonic inspection experience on composites is a plus.		Continue in regular duties as required. Maintain safe and effective quality assurance operations by motivating and directing the work force. Assist in the administration of activities and assignments and provide leadership to the workforce during quality assurance operations. Identify problems by evaluating all circumstances and proactively identify potential hazards to personnel, facilities, tooling, equipment and product. Use knowledge of quality operations and make recommendations to higher levels to solve problems and interpret/administer management policies and procedures to avoid down time and delays. Apply knowledge and experience to quickly assess, diagnose, develop and implement systems and corrective actions in order to maintain the quality and productivity goals of the team. Motivation of a high performance work team achieved through the incumbent's knowledge, attitude, example and coaching. The incumbent must be able to create a positive attitude and work environment for all personnel involved. Responsible, under supervision, for motivating a high performance work team to meet productivity, efficiency, quality and safety goals of the quality assurance team. Ensures all systems for supporting operations with materials, parts, tools, tooling, process, paper, etc. are adequately maintained to avoid production down time and delays. Evaluates support systems to ensure efficiency and interfaces with all departments in recommending changes as necessary. Conduct meetings and plan work activities in conjunction with the Quality Assurance Managers. Responsible for coordination between Production Control and Manufacturing; effectively organizing work, anticipating production problems, tracking case status, ensuring material availability, etc.	

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Minimum Education and Experience	College Science courses or equivalent education background (need not have a degree). Ability to successfully pass Level I certification examinations and requirements. Current Level I certification preferred, but not required. Computer and technical writing skills (i.e.: MS Word, Excel, MS Paint, or equivalent). Must possess excellent interpersonal and verbal communication skills and be able to maintain good will in a potentially adversarial role. Requires some understanding of electronics, test equipment, mechanical test methods and materials characteristics. An understanding of composite manufacturing/product optional, but preferred.	Must have 1600 hours documented in UT experience and 80 hours in formal training per NAS 410 requirements. Must be able to pass a company administered UT Level II test. College Science courses or equivalent education background a plus (need not have a degree). Must be able to pass a near vision 20/25(Snellen) at 16” +/- 1” in at least one eye, and be capable of adequately distinguishing and differentiating colors. Computer and technical writing skills (i.e.: MS Word, Excel, MS Paint, or equivalent). Must possess excellent interpersonal and verbal communication skills and be able to maintain good will in a potentially adversarial role. Requires some understanding of electronics, test equipment, mechanical test methods and materials characteristics. An understanding of composite manufacturing/product optional, but preferred.	Must have 1600 hours documented in UT experience and 80 hours in formal training per NAS 410 requirements. Must be able to pass a company administered UT Level II test. College Science courses or equivalent education background a plus (need not have a degree). Must be able to pass a near vision 20/25(Snellen) at 16” +/- 1” in at least one eye, and be capable of adequately distinguishing and differentiating colors. Computer and technical writing skills (i.e.: MS Word, Excel, MS Paint, or equivalent). Must possess excellent interpersonal and verbal communication skills and be able to maintain good will in a potentially adversarial role. Requires some understanding of electronics, test equipment, mechanical test methods and materials characteristics. An understanding of composite manufacturing/product optional, but preferred.	Good leadership skills with ability to motivate and lead others. Skill in interpersonal relationships and training others. Communication skills with various support groups and various levels of management. Computer skills in operating network and personal computer. Knowledge of purchasing procedures and operations. Knowledge of Safety procedures and encourage others to abide by them. Skill in operating inspection equipment, etc., and driving motor vehicles. Skill in reading mechanical engineering drawings and specifications. Ability to organize work to meet with load requirements.