American Heat Treating, Inc.
Quality Control Metallurgical Lab Supervisor

Job Summary:
Responsible for maintaining efficient and compliant testing of the metallurgical and mechanical properties and evaluations in American Heat Treating’s QC Metallurgical Lab. Responsible for ensuring reliable testing methods and procedures, and the calibration of the instruments. Responsible for the in-process and final inspection of parts along with the certification accuracy and metallurgical evaluation of the samples. Responsible for reviewing the process parameters making sure they are appropriate in order to produce metallurgically compliant parts. Responsible for first piece process qualification. Collaborates with QC Coordinator and provides technical needs and information so the production equipment and the cycles are ready to process the materials and meet required characteristics. Responsible for issuing test sample requests, rework dispositions and for root causing non-conformances found during testing.

Essential Duties and Responsibilities:
Laboratory Organization
- Must be able to perform, train and supervise the QC metallurgical lab technician.
- Develops daily, weekly, monthly task list for the QC metallurgical lab technician.
- Assists the QC metallurgical lab technician with metallurgical lab work.
- Organizes and maintains all related paperwork.
- Organizes daily and periodic calibration of all lab equipment.
- Develops procedures for testing processes such as non-contact cooling water and rinse water of the different lines to guarantee compliance and reliability.
- Collects samples of quench oils and salts for outside analyses.
- Creates Certifications and approves certifications of the tested parts.
- Supervises inspections of processing cycles and organizes employees/operators training when needed.
- Maintains all the primary equipment and products needed for testing.

Metallurgical Assistance to Production
- Manages the process validation programs including cycles and post evaluation.
- Compiles the process validation – post processing packages for internal and customer review.
- Verifies the process parameters in the system for repeatability.
- Interface liaison between production and customers.
- Uncovers parts technical problems and leads the designs of the process, process parameters, fixtures.
- Requests extraordinary testing such as Probe Checks if necessary.
- Helps organize and maintain processing data on each materials and process.
- Manages Rework - Samples programs.
- Helps organize and maintain processing data on each materials and process.
- Performs daily “Contract Review” for completeness/accuracy before processing.
- Collaborates with QC Coordinator in identifying root causing of the “rejected work” until resolution.
- Assists the furnace’ operators during processing of “special projects” or with the Process Validation parts. Performs training when necessary.
• Communicates non-compliant lab results to the Production Manager, QC Coordinator and General Manager. Will communicate with the customer and starts rework procedures once approved.
• Collaborates with ISO Coordinator in reviewing or writing procedures and work instructions as needed.

**Qualifications and Education:**
Bachelor’s degree in Material Science-Metallurgical Engineering or 5-10 years of experience in the heat-treating-solid state industry, or minimum 5 years of significant experience in chemical-metallurgical manufacturing laboratory. Knowledge of materials. Team player ability and experience in working with others. Must possess the ability to prioritize tasks.

**Keywords:**
Material Science, Metallurgical Engineering, Quality Control, Industrial Engineering, Light Industrial, Manufacturing, Heat Treating

**Company Background:**
American Heat Treating, Inc. (AHT) located in Monroe, CT, was founded in 1981 to serve the saw blade and tooling businesses. It has become one of the finest and most versatile heat-treating facilities in the Northeast. Today, the company serves a variety of industries. AHT provides pick-up and delivery services in the southern and central areas of Connecticut. We offer heat treating processes such as continuous austempering, continuous hardening, tempering, molten salt, brazing batch carburizing, carbonitriding and induction hardening. We can carbon restore, normalize, and homogenize. Vacuum processes such as hardening, annealing, tempering, aging, precipitation hardening, and stress relieving are also process we perform to our customer’s requirements.

**Benefits:** Medical, Dental, 401K

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