



An ATN Services Company

Professional Industrial Consultants

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Dimensional Performance Engineer

Warren, MI

Description

The Dimensional Performance Engineer's (DPE) primary role is to improve the dimensional quality of BIW sheet metal subassemblies for a vehicle program from prototype build through launch. The tasks include performing tooling 101 and tool repeatability studies in body shop weld tools, reviewing/analyzing dimensional data (CMM, scan, etc.), and working with suppliers to improve the quality of their incoming parts. The DPE is expected to lead the dimensional problem-solving activities in their respective area, to ensure the dimensional requirements are met.

Roles & Responsibilities

- Improve dimensional quality for Body and General Assembly parts and subassemblies in launch/steady state production driving continuous improvement in % on target metrics and reducing variation.
- Responsible to ensure and monitor body and general assembly integration.
- Use Red X and other problem-solving tools to quickly and effectively find the root cause and correct quality and dimensional problems.
- Lead dimensional problem-solving activities related to dimensional requirements, processes and final vehicle status quality.
- Manage and work with suppliers as required to correct and improve their parts dimensionally.
- Implement and monitor the dimensional Process Control/Measurement Plan for BIW subassemblies and assemblies and ultimately the finished vehicle.
- Provide process and tooling support. Recommend tooling changes and adjustments to help improve the build process.
- Complete tooling 101 and repeatability studies on tooling as required.
- Support laser scanning activities such as verifying nominals and creation and creating additional measurement points.
- Support program launch/Issue Resolution Teams as needed with dimensional studies and problem solving.

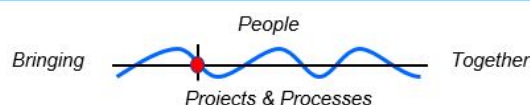
Basic Required

- Thorough knowledge of body shop tooling and manufacturing processes.
- Ability to collect, analyze, and interpret dimensional data. (Ex : supplier data, laser scans)
- Proficiency with laser scanning and other metrology methods to measure parts and subassemblies.
- Able to use GDIS to review, analyze, and monitor plant dimensional data.
- Familiar with using UG/Vis Mockup to cut sections, take nominal measurements, and review product geometry for use in problem solving.
- Knowledge of datum schemes and Geometric Dimensioning and Tolerancing.
- High level of oral and written communication skills
- High level of interpersonal skills to work effectively with product and manufacturing engineering as well as plant personnel and suppliers
- High level of analytical abilities to solve complex problems
- Facilitator/Leadership skills
- Proficient in Microsoft software
- Automotive manufacturing launch experience
- Basic Preferred
- Knowledge of computer software as it pertains to manufacturing.
- Knowledge of body and trim assembly processes
- This position may require extensive travel to assembly facilities in North America

Education and Training

- Four Year College Degree (Engineering Preferred) or equivalent experience

♦ OVERALL PROGRAM / PROJECT MANAGEMENT
 ♦ MASTER PROGRAM / PROJECT SCHEDULING
 ♦ TECHNICAL SUPPORT / CONTINUOUS IMPROVEMENT
 ♦ ENGINEERING / FABRICATION / TESTING / LOGISTICS
 ♦ INSTALLATION / QUALITY / INITIAL ACCEPTANCE
 ♦ COMMISSIONING / LAUNCH / FINAL ACCEPTANCE



STAMPING / PRESSES / MILLS ♦
 BODY SHOP TOOLING / AUTOMATION ♦
 PAINT FINISHING SYSTEMS ♦
 GENERAL ASSEMBLY TOOLING ♦
 MATERIAL HANDLING / CONVEYORS ♦
 PLACEMENT SERVICES ♦