GENERAL MOTORS FORT WAYNE ASSEMBLY

Project Title – Drive to 95 Direct Run Rate (DRR) Improvement utilizing 3D printing

OVERVIEW

Project Background and Description

The project objective is to reduce vehicle defects utilizing 3D printing technology. Fort Wayne Assembly current direct run rate is eighty six (86) with a goal of ninety five (95). Historically, eighteen (18) percent of the direct run defects fall into surface quality defect category.

The project focus will be on surface quality defects that occur throughout the assembly process which include dents, dings, paint mutilations, and other undesirable surface quality issues.

The project vision is to utilize vehicle quality data that is collected in real time to find the source of defects and develop corrective actions to eliminate future defects. Corrective actions may include tool covers, product covering, and production aids.

Project Scope

The GM Fort Wayne Assembly team would like to develop a data driven process that can be utilized by assembly team members as part of their standardized work. The process would include capturing continuous improvement ideas from the team member into a process that would generate their improvement with the 3D printed product.

Project deliverable will be a proven, standard process that generates protective components through 3D printing. This will allow the plant to provide a customized solution to quality issues in an expedient manner. The process should include forms that captures the operator's continuous improvement idea in a way that will generate the 3D printed component, component material, and component cost. The process should also include standardize work documents and required training.

Affected Parties

Manufacturing Engineering; Body, Paint and General Assembly Production Department;

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