HIGH VALUE
MANUFACTURING

CASE STUDY

Transition to "FMEA+" Application for Plant Updates & Operational Improvement

RESULTS

☑ Established new FMEA+ application to ensure better accuracy and efficiency in machining and plant updates.

☑ Successful remote coordination among key players: Lead Engineer, Process Engineers, Client FMEA Organization, and FMEA+ Resources.

☑ On-time and at-budget project completion; meeting client's download deadline by utilizing time more effectively remotely and outside of internal plant activities.

ASSIGNMENT

Prepare spreadsheet PFMEAs and PCPs to be transitioned from Microsoft Symphony (via Stature, in interim) to a relational database "FMEA+" application for major North American automotive manufacturer.

PROJECT SCOPE

Encompassing an entire global propulsion system plant:

> 5 Engine Models

> 4 Cylinder Block and Cylinder Head Types

> 3 Crankshaft Types

> 1 Engine Assembly Line

> Total of 417 manufacturing operations PFMEAs & PCPs

CHALLENGES/TASKS

> Original PFMEAs and PCPs not up-to-date or linked to each other.
> Erroneous data from previous failed attempts to transition data to a different solution.
> Updated original PFMEAs and PCPs; added numerous additional PFMEA updates.
> Created Linkage Points in each PFEMA and PCP to be used to transition to relational database.
> Ensured Linkage Points are unique, spelling identical, same syntax, correct data.
> Completed FMEA+ software training.