

# Case Study: Tier 1 Automotive Supplier Troy, Michigan

## Opportunity

- Our client developed a lithium-ion battery pack that had been chosen to be the hybrid power for a major automotive program. They were beginning the transition from the R&D and prototyping phases to the beginnings of a production environment, and were transforming their manufacturing processes to begin low volume production of the new power packs for customer testing and prove-out. TPT was engaged to assist with the development of an assembly layout consisting of standard work cells and individual operator work instructions.

## Scope

- Analyze current state work allocations for clarity of engineering intent.
- Create operator instruction boards for each work station, including visual aids and process instructions for each operator.
- Implement a means to easily accommodate ongoing updates to the process.
- Ensure that the process boards would be robust in a production environment

## Successes

- Standardized work instruction boards were created and installed in each work station, including annotated process pictures for operator instruction.
- Engineering work instructions were converted to visual work instructions and incorporated into the new work cell environment.
- The visual aids used enabled easy operator training by clearly communicating the manufacturing processes in each work station.

