

Battery cabinet assembly quality improvement proposal

Why is quality management important in battery manufacturing?

What we are seeing across the battery manufacturing landscape is an extraordinary drive to meet unprecedented demand, and this environment makes digital solutions essential to achieving quality, cost, volume and delivery targets. Quality management is at the heart of these efforts.

How to deliver high-quality batteries?

Delivering high-quality batteries requires you to manage different processes across the whole product lifecycle, from new product development to mass production. It is essential to design with a quality mindset to accelerate battery production.

How can a holistic quality program improve battery production?

Auto-translate it into: As the energy transition and electrification of mobility drive the explosive demand for batteries, Christophe Mazeaud, director of Battery Industry Solution, Siemens Digital Industries Software, discusses the key role that a holistic quality program plays in scaling and stabilizing battery production.

How can a fully integrated digital approach improve battery innovation?

To manage the fast pace of battery innovation, a fully integrated digital approach helps capture knowledge gained as each new material or process is brought into production. Manufacturing insights developed from this captured knowledge can be used to improve the next product run and reused on the next battery generation.

Why do batteries need to be reprogrammed?

Irregularities such as part tolerances, position deviations, or contaminations tend to complicate the process. Any error in this process step can damage the battery's exterior, lead to weak joints, harm the sensitive cells, and lead to dangerous short circuits affecting the performance and the overall safety of the battery.

How can a quality engineer accelerate battery production?

It is essential to design with a quality mindset to accelerate battery production. Quality engineers can leverage engineering data, such as 2D or 3D models, to acquire relevant information or perform tolerance evaluations, and the project quality can be monitored and approved in respective milestones.

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