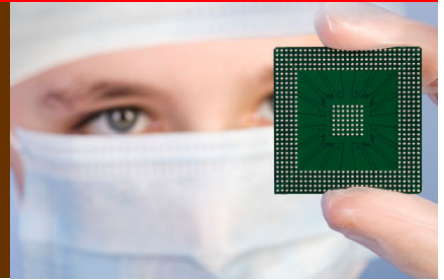
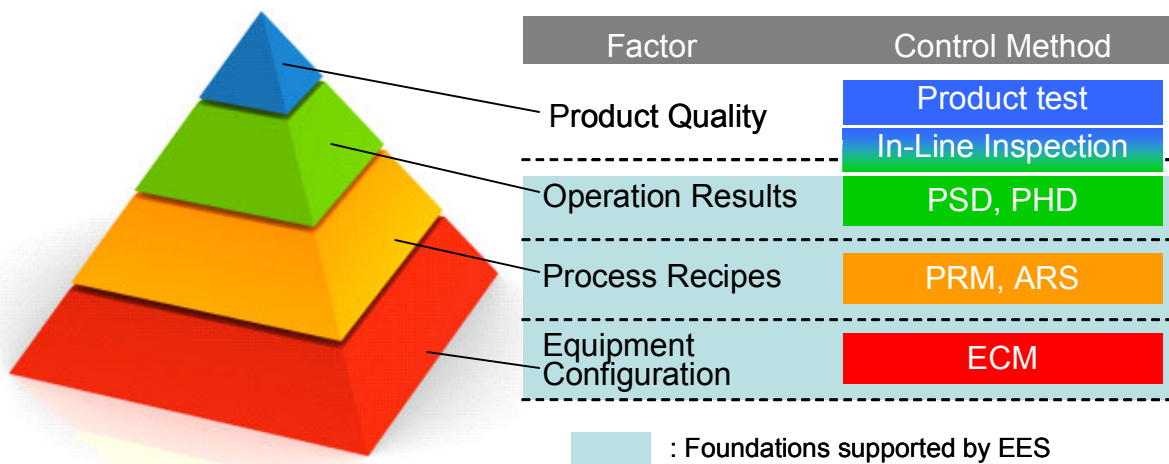


Equipment Engineering System (EES)



“EES thoroughly monitors equipment settings and behavior. It provides a foundation for product yield improvement and manufacturing cost reduction.”

EES Supports Quality Foundations



Product Quality Foundations

EES supports three primary foundations for yield improvement and cost reduction.

PSD and PHD for Operation Results

Process Summary Data (PSD) is a summary data compilation of equipment behavior. Statistics from various process variables are reported by recipe step. Process History Data (PHD) is a chronology of equipment alarms and operation events. These are practical data for detecting deviations from desired process conditions. Both modules sort data of interest and display trends by way of simple mouse operations.

PRM and ARS for Process Recipes

The Process Recipe Monitoring (PRM) module audits equipment recipe data. The Auto Recipe Selection (ARS) module verifies the correct recipe of material lots using the Manufacturing Execution System (MES). Although recipe data is quite important for product quality, millions of dollars are lost each year due to faulty recipe settings. These modules prevent recipe errors.

ECM for Equipment Configuration

Equipment Configuration Data defines the fundamental operating conditions, such as scaling, the calibration factor for sensors and actuators, and interlock settings. There are thousands of these parameters in a particular process tool. The ECM module monitors these configurations and prevents yield loss due to faulty configuration settings.