

During my observational internship at Schneider Electric, a global leader in energy management and automation and a recipient of the Deming Grand Prize, I gained firsthand exposure to advanced manufacturing systems and operational excellence. I observed the production of Residual Current Circuit Breakers (RCCBs) in cleanroom environments, where the Plastic Moulded Residual (PMR) process ensures high safety and precision. Strict dust monitoring and environmental control maintain product integrity.

A key highlight was Schneider's ISO-certified silver coating plant, one of only two in India. The facility operates with zero manual intervention, relying entirely on automated systems for consistent coating quality and safety. Across production lines, Schneider uses end-to-end automation, including barcoding at every stage for complete data traceability, ensuring rigorous quality control.

I also observed their Daily Work Management system, which standardizes operational routines and embeds accountability into everyday workflows. The Two-Day Action Plan for problem escalation demonstrated how issues are quickly identified and addressed across management levels, minimizing downtime. Additionally, Schneider's gender diversity and equality practices were evident on the factory floor.

This internship provided a comprehensive view of how structured processes, automation, and cultural values integrate to sustain world-class manufacturing standards.