

## Production Ramp-Up for Maximum Yield

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During the later part of 2009 the semiconductor industry declined forcing many companies to downsize their production target and workforce. Cost reduction programs were implemented to meet revised financial targets and operating incomes (OI). Typical programs included limiting contamination monitoring of UPW systems, minimizing power to unused cleanrooms and reducing housekeeping. However, in 2010 we all hope to see the industry get back on track with revenue and shipments at substantially greater levels than 2009. In order to efficiently ramp up production output, several integral aspects must be addressed.

They include:

- Baseline the facility (including gas, UPW and chemicals) and manufacturing environment to ensure they meet specification
- Reinforcing clean manufacturing practices and procedures
- Re-instating essential contamination test programs, such as for UPW systems, cleanrooms and process tools
- Ensuring all process control metrics and equipment are calibrated
- Improving tool reliability and reducing tool variability downtimes
- Providing contamination and clean manufacturing training, especially to new and reassigned engineers

Balazs NanoAnalysis offers on-site gap analysis consultation and clean manufacturing training. The gap analysis consists of auditing the present state and comparing it with established manufacturing practices and specifications. Our gap analysis report points out areas for improvement and provides test plans to achieve your goals. The intention here is to raise the level of awareness and bring definition to the concept of clean manufacturing. The larger the gap, the more effort will be required to meet your requirements.

Clean manufacturing training is provided by our Optima™ training seminars. The Optima™ seminars review and compare analytical techniques commonly used for Failure Analysis and Quality Control, with special emphasis on their applications to improving manufacturing. All aspects of manufacturing will be included in the seminar. Discussions on incoming materials (such as water, chemicals, gases, air, wafers and cleanroom construction materials), clean manufacturing procedures and resolution of contamination escalations with case study examples will provide valuable insights on manufacturing processes.

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The gap analysis and clean manufacturing training are best performed early in the year to ensure there is sufficient time to remedy any gaps identified. The gap analysis becomes the basis for identifying implementation actions and priorities. Closing the cleanliness gaps in your production facility, processes and procedures, and materials procurement, will enable you to meet and exceed your 2010 production and revenue targets.

**For additional information, please contact [us](#).**