

Optimize your **response** to **production** and **enterprise** targets

Assembly process performance is absolutely crucial to profitability and market reputation. The fastest and most cost-effective route to the streamlined, efficient assembly flow you're looking for, is to trust Universal Instruments' Laboratory Services experts to optimize and refine your processes.

Our rigorous Process Audit services will help you meet product, corporate or environmental targets, implement continuous improvement, and direct future investment. We have already acquired the knowledge you need by studying and developing each new assembly process, from its arrival as a cutting edge technology through to maturity. And our laboratories are equipped to analyze and fine-tune materials, process parameters, and procedures. Work with us, to achieve the highest levels of throughput, yield, efficiency, and quality.

Delivering Measurable Improvement

Process Audit equips you to meet targets for:

- Yield
- Quality
- Efficiency
- Throughput

Dialogue and Deliverables:

The Process Audit follows an established methodology, and is conducted with your full participation to deliver the improvements you need.

- Review application including assembly processes, materials, quality standards
- Determine current assembly yield (and reliability) issues
- Perform process audit
- Document and present process audit findings
- Discuss findings and recommend changes to assembly process and/or materials
- With your approval, implement agreed Process Audit recommendations
- Review improvements
- Deliver final report



Comprehensive Attention to detail:

We understand the factors that pre-determine assembly performance:

- In-depth analysis of selected materials: PCBs, components, adhesives, solder paste, flux encapsulates, flux, underfills
- Skills, knowledge, and research into all assembly processes: pre-placement, placement, reflow, underfilling
- Advanced packaging expertise: wafer bumping, package assembly, ball attach

Direct Cost Savings:

Better processes deliver big savings as well as product and output advantages:

- Reduced material costs through lower rework and process optimization
- Reduced labor costs through lower rework and less unplanned maintenance
- Assembly efficiency increase by reducing assembly time and process steps, delivers:
 - Faster pay-off on capital equipment
 - Lower utility costs
 - Increased opportunity for equipment maintenance - increased equipment reliability
 - Reduced work in progress

Benefits: Far-reaching, Invaluable

For many customers, the process audit has allowed even greater advantages by leveraging the Universal Laboratory Services portfolio:

- Process audit begins a dialogue with Universal laboratory services for future applications
- Identify issues that cannot be addressed on-site
- Direct data feedback to Universal SMT Lab at time of audit
- Mutual understanding reduces the time to resolve future issues
- Process audit identifies and helps to transfer "new" technology

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