

## Metal Finishing Process Audit Checklist

Identify where your process is costing you time, quality, and money.

### Surface Preparation (Blasting)

1. Correct blast spec selected (SP-6 vs. SP-10)?
2. Consistent surface profile achieved (Ra/Rz)?
3. Media condition monitored (not broken down)?
4. Blast pattern uniform across parts?
5. No visible contamination after blasting?

### Washing & Cleaning

1. Proper chemistry for soils and contaminants?
2. Chemical concentration monitored regularly?
3. Parts fully rinsed before drying?
4. No oil carryover into the next stage?
5. Washer matched to application (not undersized)?

### Environment & Airflow

1. Humidity controlled (no flash rust)?
2. Airflow adequate in booth (80 - 100 FPM)?
3. Dust collector functioning properly?
4. No visible airborne contamination?
5. Make-up air balanced with exhaust?

### Equipment Condition

1. Blast wheels balanced and vibration-free?
2. Wear parts inspected regularly?
3. Filters changed on schedule?
4. Spray nozzles functioning properly?
5. Preventative maintenance program in place?

### Coating Application

1. Correct film thickness achieved?
2. Proper atomization and spray pattern?
3. No over spray buildup?
4. Operators following consistent process?
5. Electrostatic settings optimized (if used)?

### Cure Process

1. Oven reaching correct temperature?
2. Part metal temperature verified (not just air)?
3. Consistent dwell time achieved?
4. No hot/cold spots in oven?
5. Cure matches coating supplier spec?

### Process Control & Training

1. Standard operating procedures documented?
2. Operators trained and consistent?
3. Process data logged and reviewed?
4. Quality checks performed regularly?
5. Issues caught before becoming rework?

<u>Score Range</u>	<u>Assessment</u>
30 - 35	High-Performing Process
20 - 29	Opportunities for Improvement
Below 29	Significant Process Risk

### Need Help Optimizing Your Process?

If your audit shows gaps, LS Industries can help identify improvements, reduce costs, and increase consistency across your finishing line. Reach out to review your process.