

School Uniform QC Inspection Checklist

Education School Uniform Solutions — LantaoWork.com

1. Fabric & Material Testing (Pre-Production)

- ☐ **Fabric Weight (GSM)** — Verify actual weight against tech pack spec ($\pm 5\%$ tolerance). Target: as specified in purchase order.
- ☐ **Fiber Composition** — Third-party lab burn test or chemical dissolution. Verify CVC blend ratio (e.g., 65/35 poly-cotton) matches PO.
- ☐ **Colorfastness to Washing (ISO 105-C06)** — Grade ≥ 4.0 . Test at 40°C, 5 cycles minimum.
- ☐ **Colorfastness to Rubbing (ISO 105-X12)** — Dry: Grade ≥ 4.0 . Wet: Grade ≥ 3.5 .
- ☐ **Dimensional Stability (ISO 5077)** — Shrinkage $\leq 3\%$ length, $\leq 3\%$ width after 3 home launderings at 40°C.
- ☐ **Martindale Abrasion (ISO 12947-2)** — $\geq 30,000$ rubs at 12 kPa for outerwear; $\geq 20,000$ rubs for shirting.
- ☐ **Tensile & Tear Strength (ISO 13934 / ISO 13937)** — Verify seam strength $\geq 80N$ for main seams.

2. Chemical Safety — Children's Products (Mandatory)

- ☐ **Lead Content (CPSIA Section 101)** — Total lead ≤ 90 ppm in surface coatings and substrates. CPSC-accredited lab report required per batch.
- ☐ **Phthalates (CPSIA Section 108)** — 6 regulated phthalates $\leq 0.1\%$ each (DEHP, DBP, BBP, DINP, DIDP, DnOP).
- ☐ **Formaldehyde (OEKO-TEX / GB 31701)** — Class A (infant): ≤ 20 mg/kg. Class B (direct skin contact): ≤ 75 mg/kg.
- ☐ **Flammability (16 CFR Part 1610)** — Class 1 (Normal Flammability) required for all school uniform fabrics.
- ☐ **Children's Sleepwear Flammability (16 CFR 1615/1616)** — If applicable to pajama/PE kit items. CPSC-accredited lab test.
- ☐ **Drawstring Safety (ASTM F1816-18)** — No drawstrings in hood/neck area for sizes 2T-12. Waist drawstrings: max 75mm extension, no toggles at free ends.

3. Workmanship & Visual Inspection (AQL 2.5, Level II)

- ☐ **Seam Integrity** — No skipped stitches, broken seams, or unraveling. Overlock seams secure with ≥ 3 -thread coverage.
- ☐ **Embroidery / Crest Placement** — Position within $\pm 3mm$ of spec. Thread tension even, no loops or puckering. Color match to approved Pantone.
- ☐ **Button & Fastener Security** — Pull test $\geq 70N$. Buttons cross-stitched, snaps securely clinched. No sharp edges on zippers.

- ☐ **Hem & Edge Finishing** — Even hem width ($\pm 2\text{mm}$), no raw edges exposed. Clean-finished facings.
- ☐ **Labeling Compliance** — Care label legible, fiber content accurate, country of origin stated, RN/CA number where required. CPSIA tracking label present.
- ☐ **Measurement Tolerance** — $\pm 1\text{cm}$ for chest/waist/hip. $\pm 0.5\text{cm}$ for collar, cuff, sleeve length. $\pm 1.5\text{cm}$ for total length.

4. Packaging & Shipment Check

- ☐ **Per-Student Packaging** — Verify each package labeled with student name + grade + barcode, matching manifest.
- ☐ **Carton Marking** — School name, PO number, carton X of Y, size/quantity breakdown on exterior.
- ☐ **Batch Lab Report Inclusion** — Printed CPSC lab report + OEKO-TEX certificate inserted in Master Carton #1.
- ☐ **Shipping Marks** — DDP consignee address correct. No conflicting FOB marks.

This checklist covers CPSIA (US), CCPSA (Canada), UK REACH, and AS/NZS 4399 baseline requirements. Additional market-specific requirements may apply. Every item must be verified and signed off before shipment release.