

COMPLIANCE CRUCIBLE

WHITE PAPER

CC-LOTO-PROCEDURE-BUILDER-001 v2.3

Hazardous Energy Control / Lockout-Tagout Procedure Builder

Structured Hazardous-Energy-Control Documentation for Construction

Scope and Application Brief

CC-WP-LOTO-001-001 | Rev 0.2 | June 8, 2026

Authority Packet: SAP-LOTO-1926.417-v1 | Jurisdiction: Federal OSHA Construction Electrical Baseline

DOCUMENTATION FRAMEWORK — SCOPE LIMITATION

This tool organizes hazardous-energy-control documentation only. It does not create or authorize a lockout/tagout procedure, perform isolation, verify zero-energy state, designate authorized employees, provide legal or engineering services, or replace employer field judgment.

The employer retains sole responsibility for procedure accuracy, isolation, verification, training, jurisdiction review, and field implementation under 29 CFR 1926 and applicable state plans.

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What Is CC-LOTO-PROCEDURE-BUILDER-001?

CC-LOTO-PROCEDURE-BUILDER-001 v2.3 is a Hazardous Energy Control / Lockout-Tagout Procedure Builder built on the Compliance Crucible platform. It provides a structured, authority-bounded documentation framework to help employers organize, review, and preserve procedure records related to hazardous energy sources, energy-isolating devices, personnel responsibilities, shutdown and isolation sequences, stored-energy controls, zero-energy verification, restoration, periodic inspection, and supporting reference materials.

The tool is organized around a construction electrical circuit lockout/tagging authority posture. The primary federal construction authority for the packet is 29 CFR 1926.417, supported by 29 CFR 1926.416, with 29 CFR 1910.147 used as a bridge/comparator only where appropriate. State Plan requirements, owner/client requirements, insurance specifications, project specifications, and more protective local requirements must be independently verified by the employer.

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Intended Users

The tool is intended for employers, safety managers, compliance managers, project managers, competent persons, authorized employee representatives, and other designated employer personnel who need a structured documentation framework for hazardous-energy-control procedure documentation and recordkeeping.

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What the Tool Produces

Field Package	Printable employer documentation package including procedure identity, scope, personnel, source/device mapping, shutdown/isolation sequence, stored-energy controls, zero-energy verification worksheet, restoration checklist, periodic inspection documentation, reference materials, and signature/acknowledgment blocks.
Auditor Bundle	Structured report presenting gate status, documentation basis, authority boundary, documentation review summary, concern indicators, evidence/reference register, and audit log for internal review or supporting documentation.
Machine Audit JSON	Structured machine-readable export of the record, including field entries, validation status, authority packet reference, evidence/reference materials, lock hash, and chain integrity metadata.
Locked Record	Tamper-evident locked record with cryptographic hash and chain-of-custody integrity metadata.

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What the Tool Does Not Do

CC-LOTO-PROCEDURE-BUILDER-001 does not perform or substitute for any of the following:

- Authorizing work, energization, deenergization, lockout, tagout, or restoration
- Performing hazardous-energy isolation or physical verification
- Verifying zero-energy state or instrument readings
- Designating, training, qualifying, or supervising authorized, affected, or other employees
- Creating a legal compliance determination or stating that employer records satisfy regulatory requirements
- Selecting isolation devices, proving absence of voltage, or confirming absence of backfeed
- Replacing employer field supervision, competent-person review, or site-specific procedure control
- Providing professional legal or engineering services

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Authority Boundary

Tool ID	CC-LOTO-PROCEDURE-BUILDER-001
Version	v2.3
Authority Packet	SAP-LOTO-1926.417-v1
Primary Authority	29 CFR 1926.417 — Lockout and tagging of circuits
Supporting Authority	29 CFR 1926.416 — General requirements for electric power circuits

Bridge Reference	29 CFR 1910.147 — General Industry control-of-hazardous-energy standard; used as bridge/comparator only, not as universal primary authority for construction electrical circuit lockout/tagging
Jurisdiction	Federal OSHA construction electrical baseline; State Plan requirements must be independently verified where applicable
Status	Member-gated release

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Proper Use Case

EXAMPLE — CONSTRUCTION HAZARDOUS-ENERGY-CONTROL DOCUMENTATION

A construction employer is preparing a hazardous-energy-control procedure for servicing, maintenance, testing, inspection, or work on equipment or circuits. The employer needs to organize the factual basis for energy sources, physical energy-isolating devices, control-only items, shutdown and isolation steps, stored-energy controls, verification methods, restoration steps, personnel responsibilities, and reference materials such as photos, drawings, one-line diagrams, P&IDs, manuals, prior procedures, instrument records, or inspection records.

The tool helps the employer structure, complete, and preserve that documentation. It does not decide whether work may proceed, whether field conditions are safe, or whether the employer has satisfied all applicable requirements. Those decisions remain with the employer and its designated personnel.

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Improper Use Cases

- A substitute for a site-specific LOTO procedure controlled by the employer
- A real-time work-control, switching, or field authorization system
- A substitute for zero-energy verification, qualified electrical work practices, or absence-of-voltage testing
- A substitute for employee training, designation, supervision, or periodic inspection
- A statement that field conditions support work or restoration
- A statement that an employer is compliant, safe, approved, or authorized to proceed
- A professional legal or engineering service

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Platform Access and Availability

CC-LOTO-PROCEDURE-BUILDER-001 is intended for member-gated access following final platform verification and authorization. Active Compliance Crucible membership is required. The platform is organized around professional, authority-bounded documentation frameworks for construction safety, environmental compliance, DOT compliance, human resources, project management, and quality assurance and control domains.

This public white paper is a descriptive scope and application document only and intentionally does not disclose internal platform, database, security, or authority-adaptor implementation details.

SCOPE LIMITATION

This white paper is a descriptive scope and application document only. It is not regulatory guidance, a legal opinion, an engineering service, a procedure approval, or an employer field decision. Requirements for hazardous-energy control and lockout/tagout are complex and employer-specific. Compliance Crucible LLC does not practice law, practice engineering, authorize work, approve procedures, or make employer field decisions.

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