



SNC Lavalin – Kentz Field Operations Systematic Approach to Electrical Safety

COAA Safety Leadership Success Story

May 10th, 2017



Agenda

- Introduction
- Overview of SNC Lavalin Field Operations
- A Structured Approach to Change
- Overview of our Go Live Strategy



“Kentz” as a member of SNC-Lavalin : A world leader

- › Founded in 1911
- › Leading engineering and construction firm
- › Major player in infrastructure ownership
- › End-to-end solutions: EPC, EPCM, financing, operations & maintenance services
- › Over 40,000 employees working in 50 countries
- › Listed on the Toronto stock exchange
- › Operating in 4 key sectors



Infrastructure



Mining & metallurgy



Oil & gas



Power



A Structured Approach to Change



*The 8-Step Process for Leading Change – Dr. John Kotter

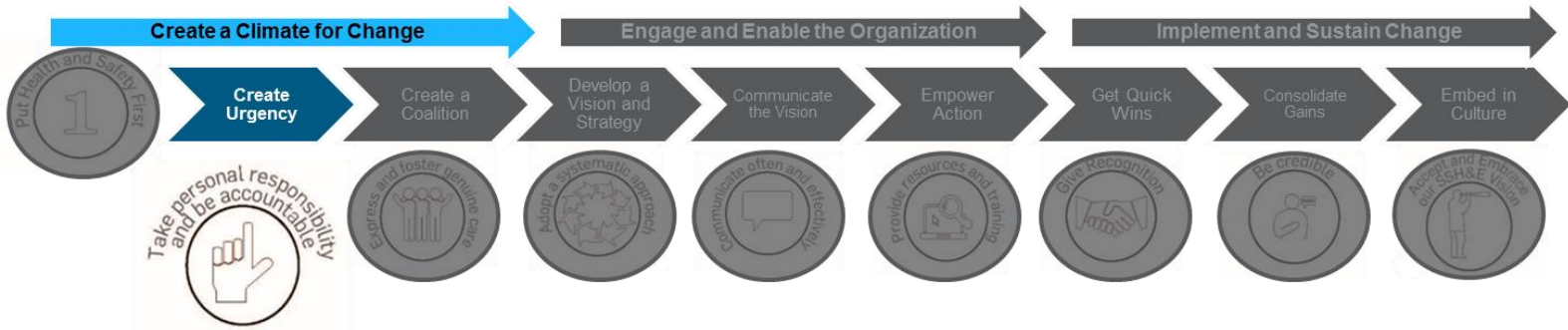
Put Health and Safety First



- › Management commitment
- › Craft engagement
- › Making it personal

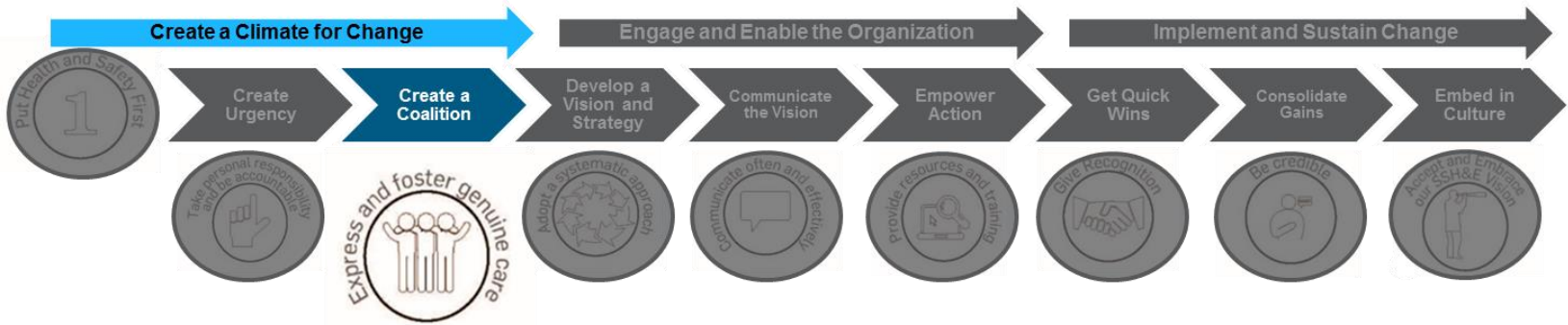
Now what?

Create Urgency



“All of this is for us – what are we doing to protect everyone else?”

Create a Coalition



- Discipline Specialists
- Management
- Craft Representatives
- Project Partners
 - Construction
 - Client – Project
 - Client – Operator
 - Subcontractors
 - Vendors



Develop a Vision and Strategy



- › Project partner/client cooperation and commitment
- › Go Live Plan
- › Electrical Steering Team
- › Work Management/Permit to Work System
- › Arc Flash Training (electrical and non-electrical workers)
- › Safe Energization Procedures
- › This is Why/Zero Energy campaign
- › Permit Audits
- › Technical Advice (i.e. GCFI circuits banned)

Communicate the Vision



Visual



Simple



Collaborative

Empower Action

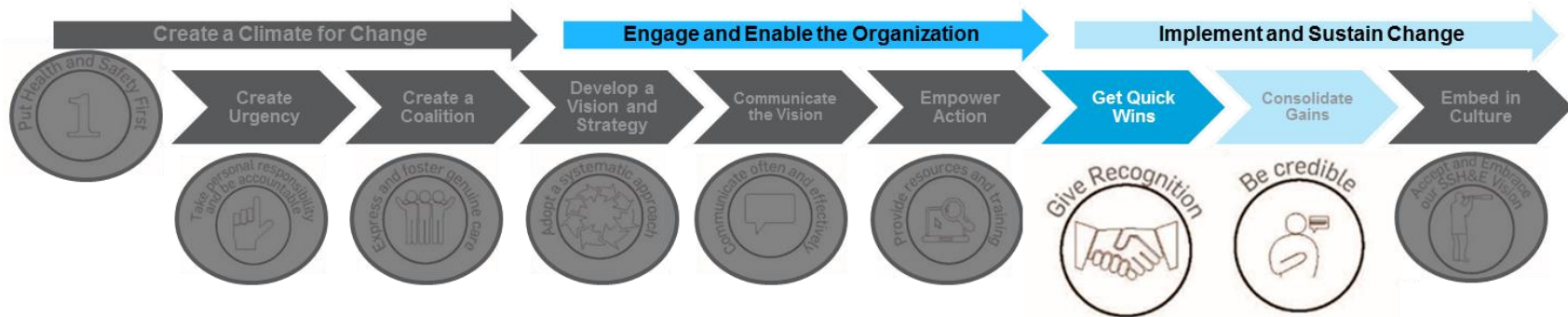


Advanced Arc Flash Training



Standby Person

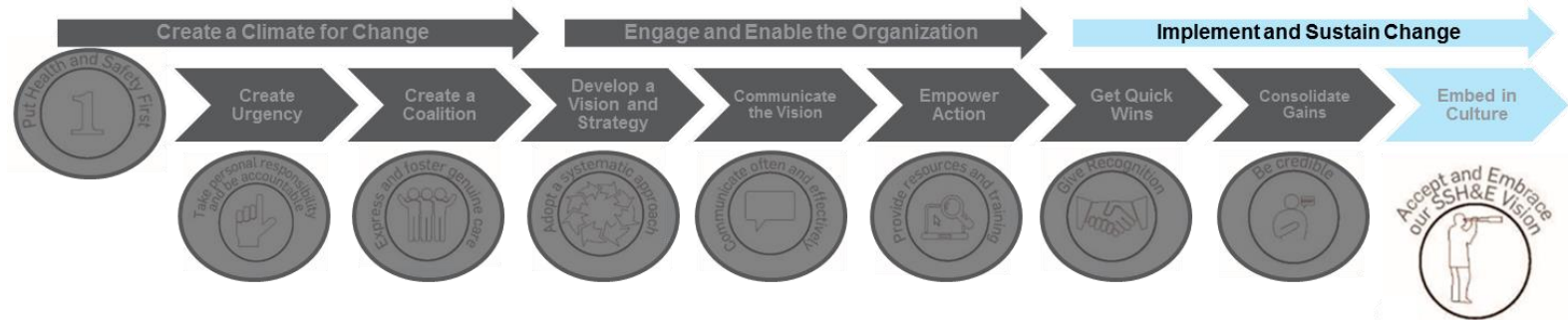
Get Quick Wins and Consolidate Gains



- *Before we started the job of energizing the generator for the mix box e-room, we discussed all safety aspects of our procedures. They involved contacting construction contractor & our LOTO group; discussing our own PPE, lockout points, & testing procedures; and installing barricades and tagging. – Electrical Tech.*
- *Observed worker warn coworkers in MCC that he was about to energize MCC bucket for 1st time. They should move back, clear the green tape and stay out of the line of fire. . – I&C Tech.*
- *When walking in Kdeox plant, I noticed two client engineers did not have the energization stickers on their hard hat. I approached them and explained the Go Live plan. They thanked me. – Mechanical Isolating Authority*



Embed in culture



- COAA nomination
- Global SNC Lavalin Best Practice – Project Management Toolkit
- ExxonMobil President’s Award
- Client recognition of electrical safety standards

Safety and Productivity

SNC Lavalin Oil & Gas 2016 Safety Statistics

Workhours: 73,471,179

LTIR: 0.00

TRIR: 0.11



Questions?

Safety is everyone's responsibility - look out for your own safety as well as the safety of those around you!

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