Leading Trends in Construction Safety

New Insights and Tools
LADDERS
LAST SOLUTIONS

JLG ECOLIFT™ 70 NON-POWERED VERTICAL LIFT

Ecolift™ is a lightweight, low maintenance, easy-to-use ladder replacement. Simply push into place and turn the handle to lift and lower.

- 360-degree range of motion and integrated tool tray improves operator productivity
- Lightweight and easy-to-manage second size / facility with wheels and forklift position
- Inclusive operation with manual turn handle to elevate: no oil, batteries or hydraulics
- Automatic brake on elevation
- 27 platform height with 13' 3” working height; 330 lbs capacity

Para-Stair Wide Step System

Para-Stairs are self-supporting staircase for accessing elevated work surfaces.

- Safe, temporary working access to most sloped surfaces where anchoring is not possible or desired
- Stackable design to allow for longer runs to provide safe, clean accessibility
- Heavy-duty, non-slip thermoplastic tread
- Open design to prevent ice/mud build-up
- Multiple sizes: 8, 10, 12, 16, 20, 24 steps
- Adjustable slope: 30 - 60 degrees operating range
- Height range: 8.49’ – 14.72’
- Max load: 550 lbs per step
Robots are being utilized to reduce Soft Tissue Injuries.  
- Concrete Placement  
- Brick and Block Work
Edge / Overhead Protection

Technology and Big Data

- WEARABLES FOR SAFETY
  - Access Control
  - Emergency Response / Accounting
  - Training Delivery - Active / Passive
  - Proximity Detection
  - Bio Metric Alerts
  - AI – Hazard Identification.
Prefabrication and Modularization

- Underground electrical distribution modules
- Exterior wall panel prefabrication
- MEP multi-trade prefabrication and modularization:
  - Corridor MEP Racks, complete with high wall GWB
  - Patient Room MEP Racks
  - Prefabricated Modular Patient Toilet Rooms
  - Prefabricated Modular Headwalls
  - Prefabricated Sink Wall Modules
  - Prefabricated Electrical Room Modules
  - Prefabricated Conduit Rack Assemblies
  - Prefabricated Piping & Plumbing Assemblies
  - Prefabricated Duct Assemblies

Leadership Cultivation Training
“To achieve a goal you have never achieved before,

you must start doing things you have never done before”

~ Steven Covey

YOUR SAFETY CULTURE

GROUP DISCUSSION

• Where are we off-the-mark?
• What are some strengths of our organization’s safety culture?
IT ALL STARTS WITH CULTURE

Hazard Recognition

Organizational Safety ACHES and PAINS

Repeat Incidents | Production Over Safety | Communication Gaps | Supervisor Leadership
Pencil Whipping | Outdated Training | Complacency | Employee Ownership
Management Involvement | Resource Constraints | Safety as Bolt-on | Plateaued Results

DUNN safety TRAINING SERIES
Safety by Choice

Leaders make choices that directly/indirectly impact outcomes

It's about making a choice to work in a safe manner ... and what you can and might do differently

Definitions

- Hazard
- Risk
- Safety
- Accountability
- Controls
**Supervisor’s Role in Creating our Safety Culture**

1. **Expectations**
2. **Train and Coach**
3. **Notice and Investigate**
4. **Accountability**
5. **Demonstrate your Commitment**
6. **Safety Conversations**
7. **Encourage Active Involvement**
8. Workers do what the **Supervisor** wants

---

**Incidents happen... Why?**
Safe Choices

- Mother Nature 2%
- Human Error 98%

Characteristics of Quality Feedback

- 1 Timely
- 2 Relevant
- 3 Sincere
- 4 Confirmed
- 5 Frequent
Six Criteria for Safety Excellence

• Top Management is visibly committed
• Middle Management is actively involved
• Front-lined supervision is performance-focused
• Employees are actively participating
• System is flexible to accommodate the culture
• Safety systems is positively perceived by the workforce

~Dan Peterson Ed. D.
Choices lead to...

Patterned Behaviors, Culture you Create, and Processes put in use

Front Line Behaviors

Risk Monitoring & Control  Operational Excellence  Positive Impacts

To Improve Results...

It’s Your Choice