



# "Relationship Building for Successful Projects"

*Presented by Nathan Clemens, USLFO – Red River Manager, US Liquids, TC Energy*



**Friday, Dec. 9, 2022 | 12 pm | Rice University**

# Rice Global Engineering & Construction Forum

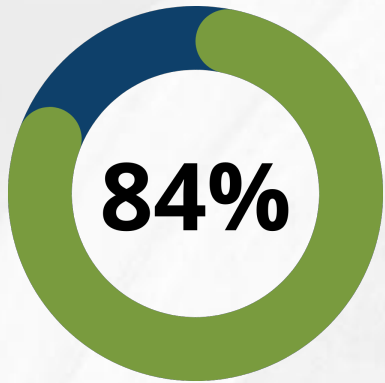
## “Relationship Building for Successful Projects”

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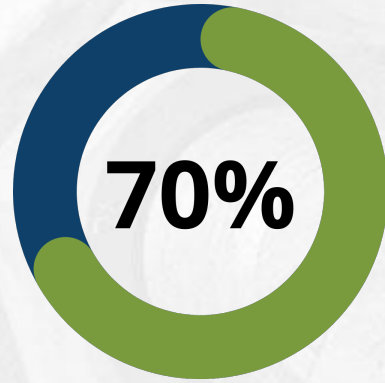
- Safety Moment
- Career Background
- Successful Projects Typical Metrics
- Relationships
- Questions

# A 2017 study found:

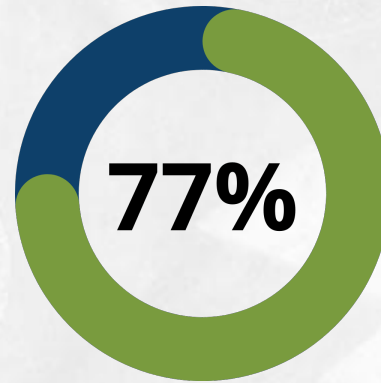
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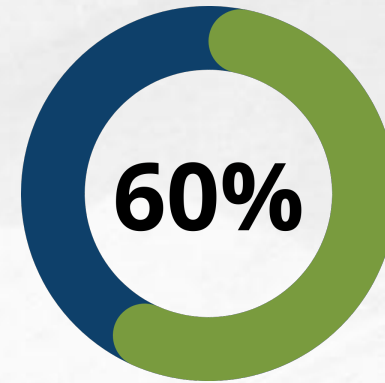
of workers with a head injury were NOT wearing hard hats



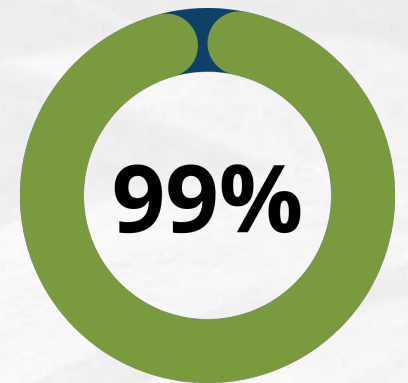
of workers with a hand injury were NOT wearing proper hand protection



of workers with a foot injury were NOT wearing appropriate safety footwear



of workers with an eye injury were NOT wearing any eye protection



of workers with a face injury were NOT wearing face protection

*Wearing the appropriate PPE makes a difference*

# Eye Protection

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- Ensure glasses are stamped with ANSI Z87.1 on the arm or bridge of the glasses and have rigid, form fitting, side shields (may be snap-on type as well). Both frames and lens must indicate they meet the standard.
- Ordinary glasses do *not* provide the required protection



# Career Background

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- Engineer by Education
- Consulting Engineer – Design
- Consulting Engineer - EPC
- General Contractor
- Owner/Operator - Major Projects
- Owner/Operator - Operations

# Successful Projects Typical Metrics

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## Safety

- Overall metrics are good (TRIR, etc.), but also overall safety culture

## Cost

- Within estimate range, the closer the better
- Estimate was industry/geographic competitive to begin with

## Schedule

- Within schedule range or schedule float
- Again, was schedule competitive to begin with

## Quality

- Broad topic, more subjectivity (meets intended scope/functionality, weld failure rate, repairs after in-service, etc.)

# Relationships

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- You exceeded all the typical metrics on your project (safety, cost, schedule, quality) – is it successful?
- Probably depends on who you ask:
  - Consulting/design engineer
  - Contractor
  - Operator – Projects Group
  - Operator – Business Development/Commercial/Executives
  - Operator – Operations
  - Operator – Maintenance
  - Operator – Others (regulatory, accounting, etc.)
- If all the above stakeholders feel the project successful, metrics aside, I would call it successful, and I believe productive relationships are key to this.

