

NTSB National Transportation Safety Board

Accident Investigation Process

Cause and Effect Analysis

Cause and Effect Relationship

Cause — Effect

(causal factors)

(accident)

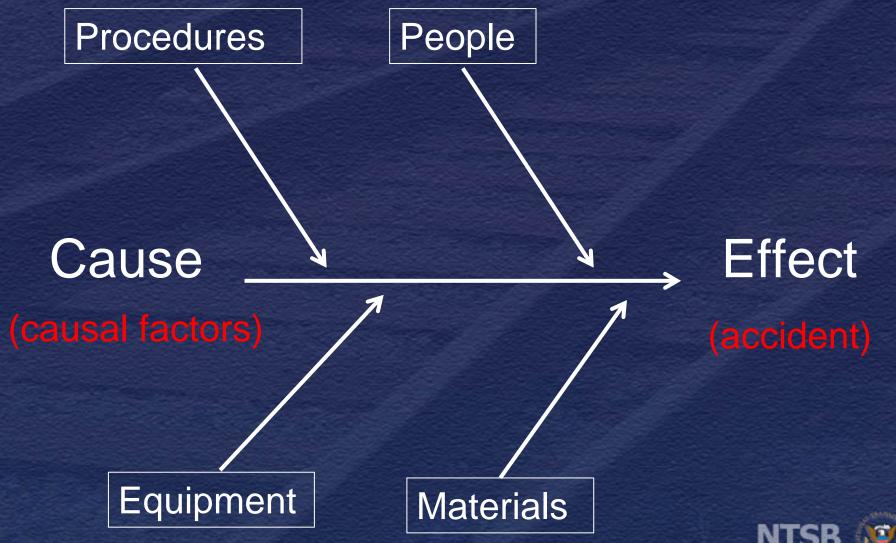


Typical Cause Categories

- Machine/Technology
- Methods/Procedures
- Materials
- People
- Inspections
- Maintenance
- Environment

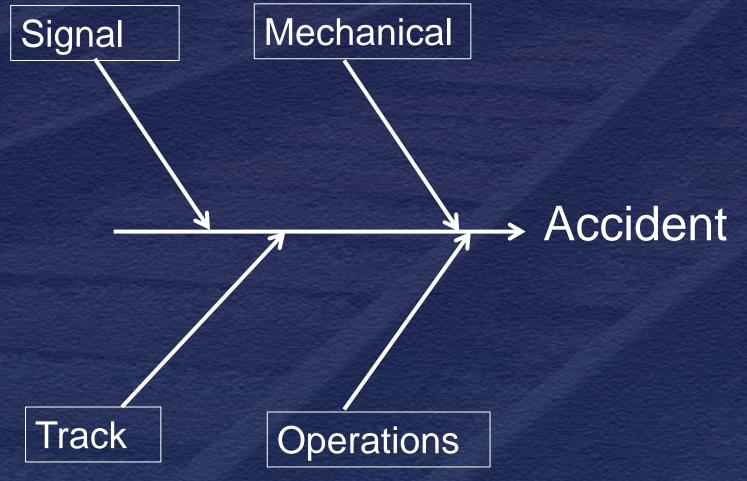


Cause and Effect Relationship



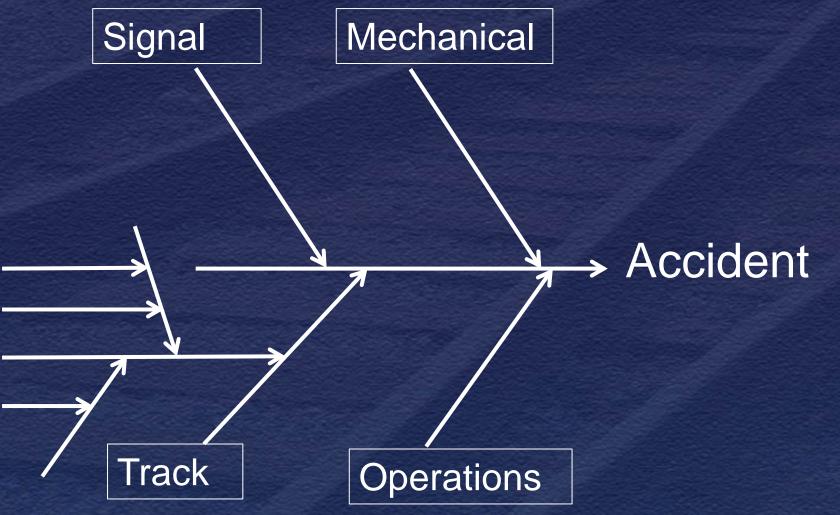


Cause and Effect Relationship Railroad Accident Investigation





Accident Investigation Tool





Use of Cause/Effect Diagrams

Cause/Effect Diagrams help the investigation team to:

- Identify areas to investigate
- Identify people to interview
- Develop interview questions
- Identify documents to request
- Identify safety issues

