



SAFETY EVENT INVESTIGATION CAUSAL AND CONTRIBUTING FACTORS

MAY 8, 2025



CATS SERVICES



FIXED ROUTE BUS

67 Bus Routes

48 - Local
13 - Express
3 - Regional Express
3 - Village Rider

FY24 Ridership: 8,308,082

Fleet: 235 buses, 20 battery electric



LIGHT RAIL AND STREETCAR

Blue Line

19 miles & 26 stations
42 train cars

FY24 Ridership: 5,804,651

Gold Line

4 miles & 17 stations
6 train cars

FY24 Ridership: 561,817



PARATRANSIT

Eligible clients: 5,104

FY 24 Ridership: 185,196

Fleet: 85 buses



VANPOOL

Vanpools: 26

Customers: 118 customers

FY 24 Ridership: 43,305

Fleet: 47 vans

Service Area: 675 miles
Service Area Population: 1,302,619
FY24 TOTAL RIDERSHIP: 14,341,234

RAIL SAFETY STAFF TRAINING



- ▷ CATS and FTA required training
 - ▷ Transit Safety and Security Program (TSSP) Certification
 - ▷ Public Transportation Safety Certification Training Program (PTSCTP) Certificate
- ▷ Specialized training in
 - ▷ Root Cause Analysis
 - ▷ Emergency Preparedness
 - ▷ TSA First Observe Plus security training
 - ▷ 30 Hour OSHA Training
- ▷ General training in Rail Operations
 - ▷ Rail Operations/Operator Training
 - ▷ Rail Car Maintenance
 - ▷ Track and Systems
 - ▷ Traction Power
 - ▷ Signals

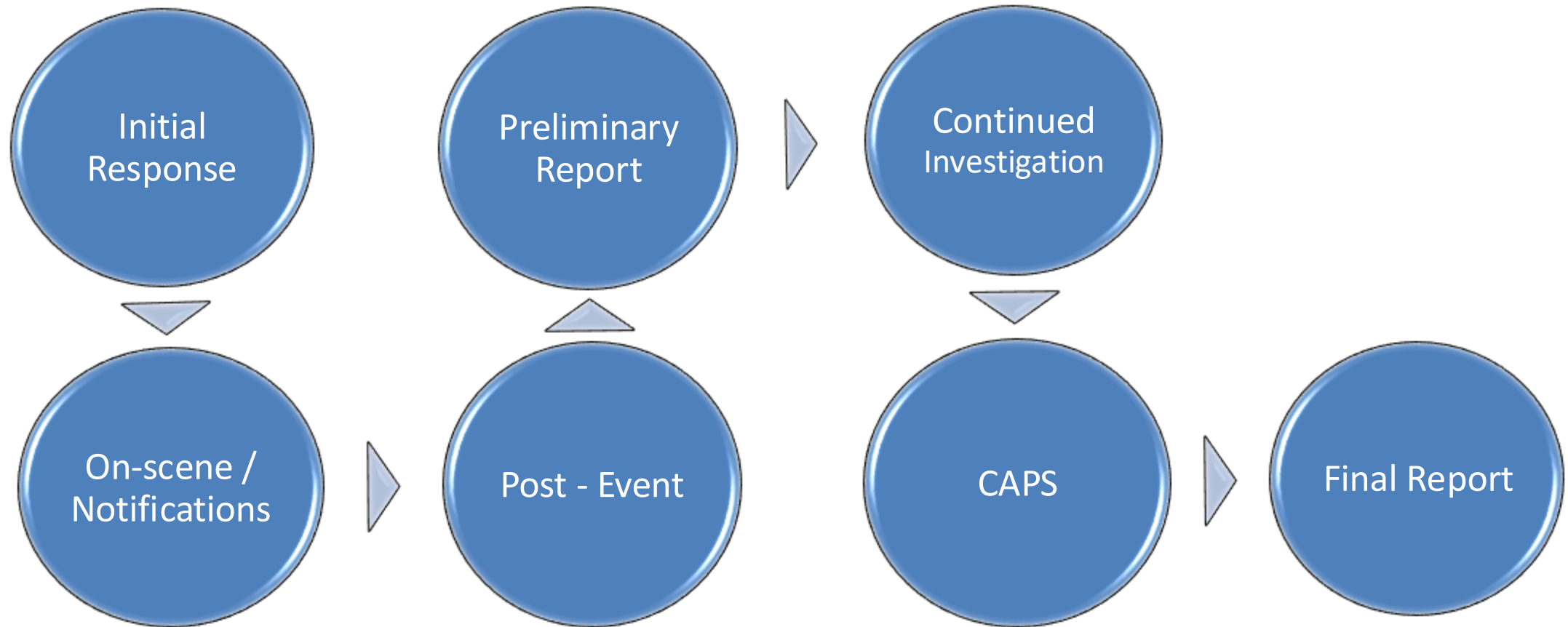
RTA SAFETY EVENT INVESTIGATIONS

Safety Event Response Structure

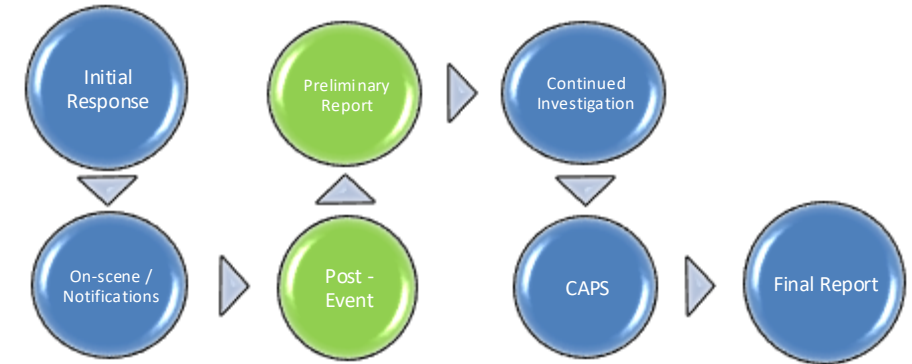
- ▷ CATS S&S03 *Safety Event/Accident/Incident Investigation and Reporting Policy*
- ▷ Why this process?
 - ▷ Industry Best Practices
 - ▷ Lessons Learned from past events and rail incident investigation training
 - ▷ Federal Regulations and State Safety Oversight Program Standards (SSOPS)

RTA SAFETY EVENT INVESTIGATIONS

The policy describes how to respond to an event, which includes the following main topics:



SAFETY EVENT INVESTIGATION PROCESS



▷ Post-event

- ▷ Steps taken to safely and properly clear an event so CATS can return to normal service
- ▷ Pull data based on type of event
 - ▷ Video, TDX, power sub-station, signal house, audio, etc.
 - ▷ Conduct interviews
 - ▷ Rail Operations initial reports

▷ Preliminary Report

- ▷ Interviews
- ▷ Vehicle downloads
- ▷ Video and audio review and downloads
- ▷ Rail Operations reports
- ▷ Initial determination of preventable vs. unpreventable
- ▷ Create maps of event location



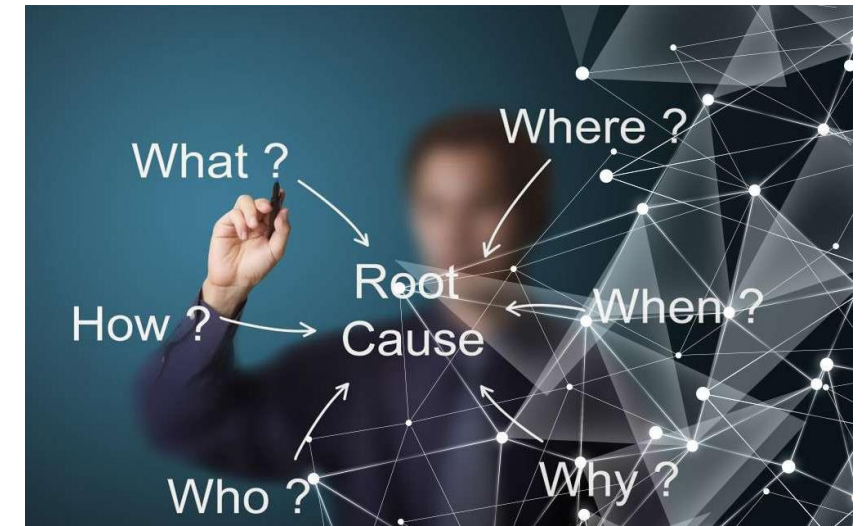
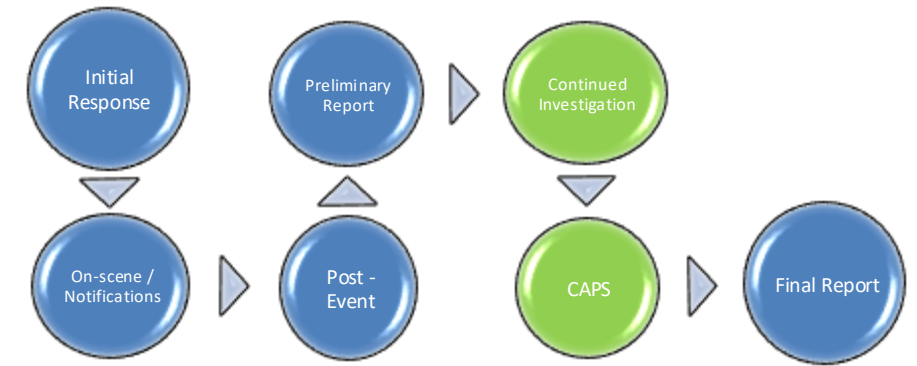
SAFETY EVENT INVESTIGATION PROCESS

▶ Continued investigation

- ▶ Process to follow to investigate event
 - ▶ As necessary return to event location and take additional measurements, pictures, etc.
 - ▶ Review collected data
 - ▶ Conduct follow-up interviews
 - ▶ Identify violations as applicable
 - ▶ Determine if event was preventable vs. unpreventable
 - ▶ Draft initial CAPS
 - ▶ Conduct Root Cause Analysis

▶ CAPS

- ▶ Process to follow if corrective actions are identified
 - ▶ Identify corrective action plans
 - ▶ Follow SSOPS
 - ▶ Enter CAPS in database
 - ▶ Track CAPS until closure



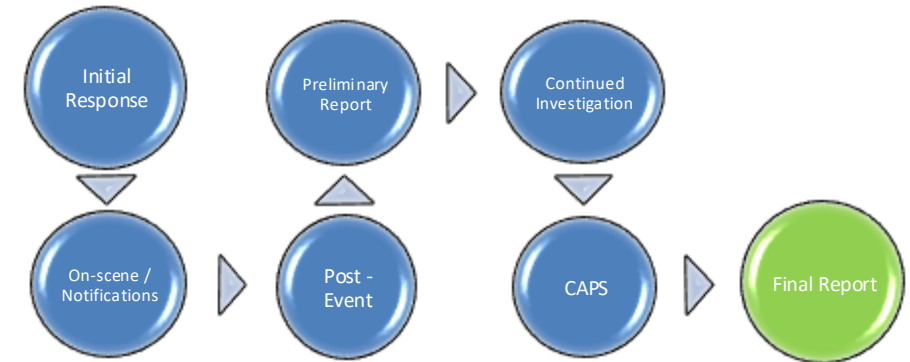
SAFETY EVENT INVESTIGATION PROCESS

▷ Final Report

- ▷ Create final report
- ▷ Follow template laid out in SSOPS
- ▷ Determine preventable vs. unpreventable
- ▷ Determine contributing factors
- ▷ Identify violations and associate CAPS as applicable

▷ If safety trends are identified

- ▷ Create Bulletins or Notices to adjust current operations to address identified issues
- ▷ Provide additional training, refresher training, or adjust training
- ▷ Update policies and procedures or create new processes to address identified issues



LESSONS LEARNED

- ▷ Create Templates
 - ▷ 2-hour notifications to SSOA/FTA
 - ▷ Preliminary Report
 - ▷ Final Report
 - ▷ Rail Operations Supervisor Report
 - ▷ Checklists
- ▷ Refresher training
 - ▷ S&S03
 - ▷ Roles and responsibilities
 - ▷ Drills and exercises
- ▷ Conduct Root Cause Analysis
 - ▷ QA
 - ▷ Risk Management
 - ▷ Rail Operations
 - ▷ Safety and Security





THANK YOU!

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