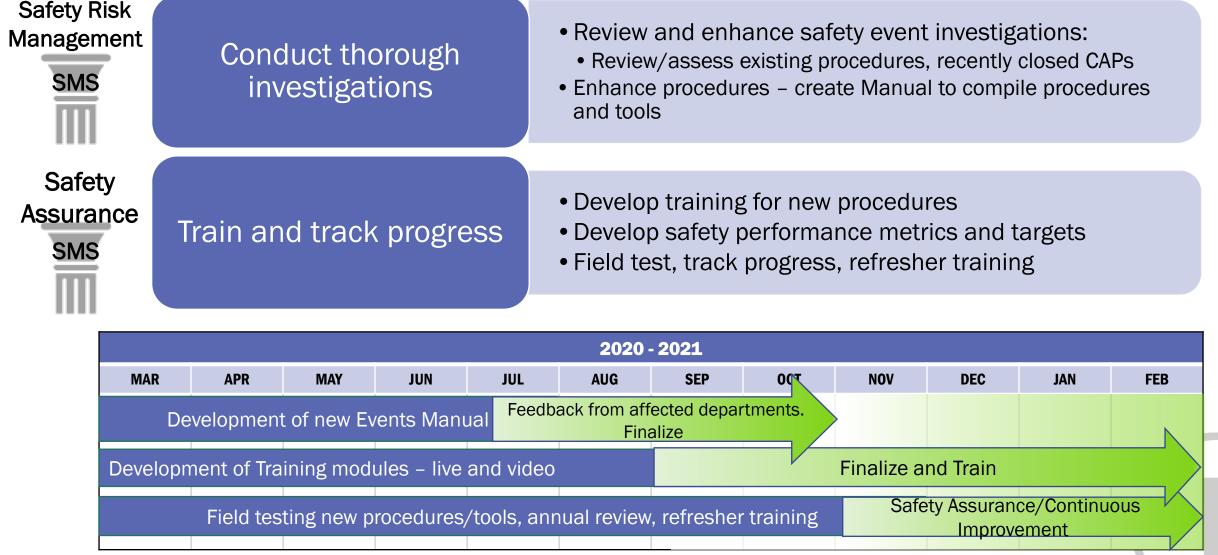


Fiscal and Management Control Board

September 21, 2020

Steven V. Culp, Chief Investigation and Safety Assurance Officer

Safety Initiative: Strengthen Safety Event Investigations



Enhance Safety Event Investigations – Manual

- 3rd party review/evaluation of recently closed CAPs
- Best Practices Review
 - Transportation Agencies
 - Amtrak Transportation, Keolis
 - CATS (Charlotte), CTA (Chicago)
 - Metro Link (SCRRA)
 - Minneapolis Metro Transit
 - NJ Transit, NY MTA, WMATA (D.C.)
 - Industry Standards
 - APTA Standards, FRA Standards
 - NTSB and U.S. DOE Safety Investigations
 - European Railway Agency Guidance
 - Pat Lavin, Former NY MTA Investigator, WMATA CSO

- Prepared new Events Manual w/3rd party support
- Manual includes detailed processes for:
 - On-scene response and investigation
 - Post on-scene investigation and analyses
 - Causal factor identification, root cause analyses
 - Corrective and preventative action and monitoring
 - Tools checklists, instructions, templates
- Training in-person and video
- Field testing
- Tracking

Enhance Safety Event Investigations – Training Modules

- Developed in coordination with departmental Subject Matter Experts (SMEs)
- Provide MBTA and MBTA Safety personnel with a baseline understanding of investigation techniques
- Sustainable training program through MassDOT/MBTA Learning Hub
- Opportunities to provide hands-on training with departmental SMEs
- 22 training modules presented by SMEs, MBTA Safety, or MBTA Management

Investigation Training Modules

Training Modules – Multiple Departments

- 1. Executive Management
- 2. Employee Injury Response
- 3. Safety Event Response Team (SERT)
- 4. On-Scene Signals
- 5. On-Scene MOW
- 6. On-Scene Power
- 7. On-Scene Bus Transportation
- 8. On-Scene Rail Transportation
- 9. On-Scene Rail Vehicle Maintenance
- 10. Effective Interviewing

Training Modules – Safety-Specific

- 11. Signals Familiarization
- 12. MOW Familiarization (Presented 09/14/20)
- 13. Power Familiarization
- 14. Bus Transportation Familiarization (Presenting on 09/21/20)
- 15. Rail Transportation Familiarization
- 16. Rail Vehicle Maintenance Familiarization
- 17. On-Scene Safety Responder
- 18. Photographing and Video Recording the Scene
- 19. Sketching the Scene
- 20. Post-On-Scene Investigation Activities
- 21. Causal Factors and Root Cause Analysis
- 22. Report Writing and Mitigating Actions

Example Investigation Training Module

