

# Training Program Entitled Transit Asset Management

## National Transit Institute

AECOM

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July 26, 2010

**AECOM**

# Agenda

- Training Process
- Course Overview
- What are your needs?

# Training Process

# Training Process

- FTA requested National Transit Institute (NTI) to develop and deliver an asset management course
- NTI requested proposals on April 30, conducted interviews on May 26 and awarded the contract on June 5, 2010
- Course development approach
  - Over 50 years' transit industry management experience
    - Operations and maintenance
    - Capital development
    - Capital programming
    - Finance
  - International asset management expertise

# Training Process

- Instructional team progress:
  - Has drafted an initial outline
  - Is conducting research for case materials
  - Is requesting your comments today on the needs
  - Will submit draft materials on July 30
- Course offerings are planned beginning in late August
- Course schedule updates will be posted on the NTI website:
  - <http://ntionline.com>

# Course Overview

# Course Overview

- **Audience:**

- Mid- and senior-level managers
- Involved in day-to-day responsibility for transit assets including
  - rolling stock, guideway, and facilities
- Organizational area of participants:
  - operations
  - maintenance
  - facilities
  - Infrastructure
  - financial
  - executive management

# Course Overview

- Goal:  
to support the use of asset management in transit agencies through information dissemination
- By the end of this course, participants will be able to:
  - Define transit asset management
  - Recognize benefits and how it can help their transit system
  - Reference FTA policies relative to protecting assets
  - Determine how to establish key performance indicators applicable to their needs
  - Describe basic asset management principles
  - Provide strategies to develop and implement asset management program



# Course Overview

- 1 ½ day course
- Four modules are being developed:
  - Asset Management Principles
    - Describe the basic principles of asset management
    - List the five core questions any agency should be able to answer about its assets
    - Establish common asset management vocabulary
  - Performance Measurement
    - Describe the importance of SMART-method performance measures in transit asset management
    - Point out key differences among some common transit asset management measures

# Course Overview

- Four modules are being developed (continued):
  - Implementation
    - Recognize the 10 asset management implementation steps
    - Identify the main components of an asset management plan
    - Describe the different roles involved in implementing asset management
  - Asset Management Tools and Techniques
    - Identify key uses of information technology in asset management
    - Explain monetary tradeoffs between maintenance expense, rehabilitation and replacement
    - Describe a method for an agency to establish capital investment priorities

# Course Developers' Questions

What skills do you need in developing your asset management program?

END

# Initial Questions ... Are There Others?

1. Asset management methodology focuses on managing the timely maintenance and renewal of assets
  - What proportion of time should be spent on agencies that have a major backlog of renewal needs?
  
2. Should the course focus on determination of total asset funding needs, even when they surpass foreseeable funding?
  - What is the best measure of performance when life cycle costs cannot be minimized (the backlog is substantial)?
    - Total backlog of needs (\$ or a % of asset replacement value)
    - % of backlog funded
    - % of assets (replacement value) in a state of good repair
    - Others?

# Initial Questions ... Are There Others?

3. For some agencies, capital and operating funding are not fungible – one may be more readily available than the other
  - Should the course attempt to provide guidance on optimal use of funding?
4. How should expansion of the infrastructure and fleets be addressed in the asset management course?
  - Fund all maintenance and renewal before expansion?
  - Incremental effects of expansion projects on renewal and replacement (e.g., where bus fleets would be replaced by rail)?
  - Defer to local policy regarding expansion?

# What are your needs? Discussion



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