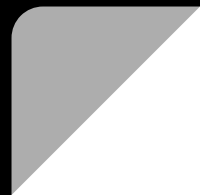


Fleet Review & Evaluation

Scott Smith, Cleveland Heights - University Heights city school district.



Topics

- **Preventative Maintenance**
- **Life Cycle Assessment**
- **Bus Purchasing & Specifications**

Preventive Maintenance Types

Planned and Reactionary

When we think of preventive maintenance there are typically two types.

- Planned
 - Everything is going smooth and on schedule.
- Reactionary
 - Is that our bus on the news causing the major traffic delay?

Planned

How often should each Bus be in the Shop?

- How many Buses in your fleet vs how many mechanics, are the mechanics strictly bus or ????
- Number of route buses vs. available spare buses.
- Age of your Fleet
- Mileage, Engine Hours, Time
- 30 - 45 days
- PM Schedule A, B, C?

Develop a comprehensive
maintenance checklist for
your vehicles!

Oil & Filter Replacement

How often Should the oil and filter be changed, what tools are available in helping with this decision?

1. Oil analysis
2. Engine Hours
3. Mileage
4. This is how the district has done it for years
 - Synthetic or Conventional?
 - Determining the correct change interval will save the district Money

Parts, To stock or not?

- What do we use the most?
- How many/much do we need?
- How quickly can your supplier deliver?
- Purchase Price

We replaced one of those once we need a few on hand!

Common parts stocked

- Filters
- Tires
- Mirrors
- Electrical and lighting
- Batteries?
- Consumables
- Air line & brake repair items

Reactionary Maintenance

It Happens

The idea behind a comprehensive maintenance plan is to ultimately reduce the amount of unplanned reactionary situations you have to deal with.

Life Cycle Assessment

When should we replace our Bus?

- Age
- Mileage
- Engine Hours
- Operating Costs
- Catastrophic Repair
- Lack of use



Replacement Plan

Ultimately you should develop a plan that decreases your fleet age, and provide fiscal management to the district and your department.

Things to consider

- Fuel Costs - MPG
- Maintenance Costs
- Bus Capacity and use
- Parts Inventory
- Product Knowledge
- Warranty
- Fuel Type
- Avoid too many of the same model year
- Develop a plan with flexibility to meet future and changing needs

Bus Purchasing

How and where do I go to purchase my new buses?

What do we need?

Research what you need

- Type of Bus, A, B, C
- Size/Capacity
- Fuel type
- What is the primary use
 - Field Trips
 - Long Distance routes
 - City or suburban routes
 - SPED
 - All of the above

Things to consider

- Will the mechanics or service provider need special equipment or training
- How quickly do we need the bus
- Will we have to stock additional parts
- Trade the old bus, sell it outright, or keep it for field trips or a maintenance spare.
- Warranty
- Bus Lease or Lease Purchase
- Is this an approved option

Bus Construction Standards & Approved Options

Ohio State Patrol

- <http://www.statepatrol.ohio.gov/>
 - Publications - School Bus (Inspection Manual, Construction Standards & Approved options)

Ohio School Boards Association

- www.ohioschoolboards.org
 - Services - Transportation services - School Bus Construction Standards

Bidding and Specifications

- You can do your own competitive bid
 - Legal Ad
 - Bid packet
 - Specification

Bidding and Specifications

- Cooperative Purchasing or Outsource your bid
 - Just about everything is handled, you might have to pay a fee, and it may or may not save you money.
- Ohio Schools Council (OSC) (Currently participation fee has been waived)
- Ohio Association of School Business Officials (OASBO)