

PTMS VEHICLE AND EQUIPMENT CONDITION INSTRUCTIONS

The condition of each vehicle and all equipment costing more than \$100,000 for Urban Systems, and more than \$1,000 for Rural Systems must be checked using the techniques described below. Your agency must record the condition as a number between 0 and 100.

A. Vehicle Condition

There are ten vehicle subsystems (engine, drive-train, electrical, suspension/steering, A/C and heating, structure, body interior, body exterior, wheelchair safety, and safety systems) per vehicle that are to be evaluated. Each subsystem should be given a score from 1 to 10, using the scale listed below. Maintenance and inspection records should be used to evaluate subsystems one through six. Visual inspections should be done to complete items seven through ten. When all of the subsystems have been scored, the scores should be added together to determine the vehicle condition to be reported with your PTMS data.

Subsystem Rating Scores:

Score	Rating	Description
10	Excellent	Brand new, no major problems exist, only routine preventive maintenance
7 - 9	Good	Elements are in good working order, requiring only nominal or infrequent minor repairs (Greater than 6 months between minor repairs)
4 - 6	Moderate	Requires frequent minor repairs (less than 6 months between repairs) or infrequent major repairs (more than 6 months between major repairs)
1 - 3	Poor	Requires frequent major repairs (less than 6 months between major repairs)
0	-	In such a poor condition, that continued use presents potential problems

	System	Descripton	Score
1	Engine	Evaluate available compression tests, oil usage, oil analysis and noise	
2	Drive-train	Evaluate transmission and rear-end based on fluid analysis, shift quality, fluid leaks and noises	
3	Electrical	Evaluate lights, switches, gauges, and other electrical mechanisms relative to general working conditions. Evaluate wiring condition especially front to back wiring	
4	Suspension/steering	Evaluate cooling and heating capability throughout the bus in order to maintain passenger and driver comfort	
5	A/C, Heating	Evaluate cooling and heating capability throughout the bus in order to maintain passenger driver and comfort	
6	Structure	Evaluate extent of crack and rust involvement in structure	
7	Body Interior	Evaluate condition of floor, windows, seats, side and modesty panels and other interior items	

	System	Description	Score
8	Body Exterior	Evaluate extent of cracks, dents, and rust	
9	Wheelchair Safety	Evaluate ability to load and unload passengers safely	
10	Safety Systems	Evaluate the braking system including the emergency braking system, emergency exit windows, doors, hatches, etc	
Vehicles Condition Score			

The total score determines the vehicle condition score. Based on the score the vehicle should be rated as:

Score	Rating
81 - 100	Excellent
61 - 80	Good
41 - 60	Moderate
21 - 40	Poor
≤ 20	Unusable/Inoperable

B. Equipment Condition

The condition of all equipment costing over \$100,000 must be updated annually. The same definitions of Excellent, Good, Moderate, Poor and Unusable conditions as defined in the vehicles section should be used to rate equipment. Using the definition selected, rate the equipment based on the 0-100 scores listed below I.E. Equipment rated as excellent should receive a score between 81 - 100.

Score	Rating	Description
81 - 100	Excellent	Brand new, no major problems exist, only routine preventive maintenance
61 - 80	Good	Elements are in good working order, requiring only nominal or infrequent minor repairs (Greater than 6 months between minor repairs)
41 - 60	Moderate	Requires frequent minor repairs (less than 6 months between repairs) or infrequent major repairs (more than 6 months between major repairs)
21- 40	Poor	Requires frequent major repairs (less than 6 months between major repairs)
≤ 20	-	Unusable/Inoperable

C. Facility Condition

Operations facilities, transfer facilities, electric substations, rail stations and intermodal facilities. Each transit agency facility will be evaluated to determine its function and structure and condition.

1. Structural Condition (50 points) - Evaluate the overall condition of each facility, (i.e. walls, floors, roof, mechanical systems (HVAC), water, sewer, fueling storage systems, fare collection areas, conformity to federal/state mandates) using this scale:

Score	Rating
41 - 50	Excellent
31 - 40	Good
21 - 30	Moderate
11 - 20	Poor
≤ 20	Unusable/Inoperable

Functional Condition (50 points) - Evaluates the overall condition of each facility relative to usability of the various areas taking into account such things as employee safety and comfort, functional usefulness, maintenance and storage capacity, access by the general public, dispatching and other operational considerations, etc. Using the scale above, rate the functionality of the facility.

Using the evaluation figures for the Structural and Functional Conditions, calculate the maximum score to determine the Facility Health Index (See formula below).

	Factor	Description	Score	Weight	Individual Facility Score	Maximum Score
1	Structural Condition		(Structural Evaluation Score/100)*50			50
2	Functional Condition		(Functional Evaluation Score/100)*50			50
Score:						100

2. Facilities (include storage buildings, passenger shelters, and other general purpose buildings). Evaluate interior conditions as follows:

Score	Rating
81 - 100	Excellent
61 - 80	Good
41 - 60	Moderate
21 - 40	Poor
≤ 20	Unusable/Inoperable

3. Facility Remaining Service Life (RSL). The Remaining Service Life for a facility is to be based upon a Four-Year Capital and Operating Plan, an evaluation in a Transit Development

Program (TDP) or other technical document where programming of major renovations and replacements are scheduled. Documents establishing the remaining useful life (or time until major renovations are needed) must be completed within the past 5 years for a project to have a remaining useful life established in terms of either Inventory System or PTMS system.

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Total Rating ✓ 0

1023	
1. Engine	0
2. drive-train	0
3. Electrical	0
4. Suspension/Steering	0
5. Structure	0
6. Body Interior	0
7. Body Exterior	0
8. A/C, Heating	0
9. Mobility Safety	0
10. Safety Items	0

Total Rating ✓ 0

Total Rating ✓ 0 Total Rating ✓ 83

1025		1244	
1. Engine	0	1. Engine	7
2. drive-train	0	2. drive-train	8
3. Electrical	0	3. Electrical	8
4. Suspension/Steering	0	4. Suspension/Steering	8
5. Structure	0	5. Structure	9
6. Body Interior	0	6. Body Interior	8
7. Body Exterior	0	7. Body Exterior	7
8. A/C, Heating	0	8. A/C, Heating	8
9. Mobility Safety	0	9. Mobility Safety	10
10. Safety Items	0	10. Safety Items	10

Total Rating ✓ 0 Total Rating ✓ 83

Total Rating ✓ 83 Total Rating ✓ 97

1245		1668	
1. Engine	7	1. Engine	10
2. drive-train	8	2. drive-train	10
3. Electrical	8	3. Electrical	10
4. Suspension/Steering	8	4. Suspension/Steering	10
5. Structure	9	5. Structure	10
6. Body Interior	8	6. Body Interior	10
7. Body Exterior	7	7. Body Exterior	10
8. A/C, Heating	8	8. A/C, Heating	10
9. Mobility Safety	10	9. Mobility Safety	10
10. Safety Items	10	10. Safety Items	10

Total Rating ✓ 83 Total Rating 100

Total Rating ✓ 97

1669	
1. Engine	10
2. drive-train	10
3. Electrical	10
4. Suspension/Steering	10
5. Structure	10
6. Body Interior	10
7. Body Exterior	10
8. A/C, Heating	10
9. Mobility Safety	10
10. Safety Items	10

Total Rating 100

1246	
1. Engine	7
2. drive-train	8
3. Electrical	8
4. Suspension/Steering	8
5. Structure	9
6. Body Interior	8
7. Body Exterior	7
8. A/C, Heating	8
9. Mobility Safety	10
10. Safety Items	10

Total Rating ✓ 83

1247		1670	
1. Engine	7	1. Engine	10
2. drive-train	8	2. drive-train	10
3. Electrical	8	3. Electrical	10
4. Suspension/Steering	8	4. Suspension/Steering	10
5. Structure	9	5. Structure	10
6. Body Interior	8	6. Body Interior	10
7. Body Exterior	7	7. Body Exterior	10
8. A/C, Heating	8	8. A/C, Heating	10
9. Mobility Safety	10	9. Mobility Safety	10
10. Safety Items	10	10. Safety Items	10

Total Rating ✓ 83 Total Rating 100

1671	
1. Engine	10
2. drive-train	10
3. Electrical	10
4. Suspension/Steering	10
5. Structure	10
6. Body Interior	10
7. Body Exterior	10
8. A/C, Heating	10
9. Mobility Safety	10
10. Safety Items	10

Total Rating ✓ 100

1248	
1. Engine	7
2. drive-train	8
3. Electrical	8
4. Suspension/Steering	8
5. Structure	9
6. Body Interior	8
7. Body Exterior	7
8. A/C, Heating	8
9. Mobility Safety	10
10. Safety Items	10

Total Rating ✓ 83

1672	
1. Engine	10
2. drive-train	10
3. Electrical	10
4. Suspension/Steering	10
5. Structure	10
6. Body Interior	10
7. Body Exterior	10
8. A/C, Heating	10
9. Mobility Safety	10
10. Safety Items	10

Total Rating 100

1673	
1. Engine	10
2. drive-train	10
3. Electrical	10
4. Suspension/Steering	10
5. Structure	10
6. Body Interior	10
7. Body Exterior	10
8. A/C, Heating	10
9. Mobility Safety	10
10. Safety Items	10

Total Rating ✓ 100

	1675	
10	1. Engine	10
10	2. drive-train	10
10	3. Electrical	10
10	4. Suspension/Steering	10
10	5. Structure	10
10	6. Body Interior	10
10	7. Body Exterior	10
10	8. A/C, Heating	10
10	9. Mobility Safety	10
10	10. Safety Items	10
100	Total Rating	100

