



Lesson 3 - Air Brake Inspection In-Yard Assessment  
Mandatory Entry-Level Training Manitoba Class 1 (MELT) Program

Student's Name (Last, First, Second):

Driver's Licence Number:

Class of Driver's Licence & Condition Code(s):

Driver's Licence Expiry Date:

Successful Completion Date:

Air Brake Components	Weight	Score 1-4
Checks brake lining to drum contact	3	
Checks brake-lining conditions	3	
Checks brake-lining contamination	3	
Checks brake-lining thickness	3	
Listens for audible leaks in chambers	3	
Looks for cracks/non-manufactured holes	3	
Checks for damaged or worn air lines	3	
Checks for mismatched slack adjuster effective length on a steering axle	3	
Inspects for damaged drums or rotors	3	
Listens for air leaks in hoses and tubes	3	
Checks for mismatched chamber size	3	
Inspects for improper fittings on air line	3	
Looks for insecurely mounted air tank	3	
Checks compressor drive belt pulley	3	
Inspects compressor drive belt	3	
Looks for insecure air compressor mount	3	
Total Points		0

**Low Air Warning System**

Ensures pressure is above 90 psi	3	
Leaves ignition on	3	
Fans brakes	3	
Observes pressure gauges	3	
Watches and listens for device to activate	3	
Notes air pressure displayed on gauges	3	

**Compressor**

Ensures trailer supply valve is closed	3	
Lowers pressure to below 80 psi	3	
Runs engine at 600 - 900 rpm	3	
Observes pressure gauges	3	
Notes when 85 psi reached on primary	3	
Notes when 100 psi reached on secondary	3	

**Governor Operation**

Secures vehicle	3	
Releases tractor spring brakes	3	
Observes pressure gauges	3	
Runs engine till pressure reaches max level	3	
Notes cut-out pressure setting	3	
Fans brakes	3	
Notes cut-in pressure setting	3	

**Leak Test**

Secures vehicle	3	
Releases tractor spring brakes	3	
Opens trailer supply valve	3	
Ensures pressure within normal range	3	
Shuts off engine	3	
Presses and holds brake	3	
Notes pressure indicated on gauges	3	
Notes pressure change in one minute	3	
Knows maximum allowable air loss	3	
Total Points		0

School Name:

Instructor Name:

Instructor Permit Number:

Instructor Signature:

Comments (Hand write and continue comments on reverse):

Tractor Protection System	Weight	Score 1-4
Ensures trailer supply valve is closed	3	
Releases tractor spring brakes	3	
Ensures system within normal pressure range	3	
Disconnects and stows both air lines	3	
Listens for audible air leaks	3	
Opens trailer supply valve	3	
Observes pressure gauges	3	
Notes when trailer supply valve closes	3	
Rebuilds pressure to normal range	3	
Presses and holds brake	3	
Listens for air exhausting	3	
Total Points		0

**Automatic Application Trailer Spring Brakes**

Ensures trailer supply valve is open	3	
Ensures trailer is fully charged	3	
Ensures system within normal pressure range	3	
Closes trailer supply valve	3	
Listens for air exhausting	3	
Confirms brake application	3	
Total Points		0

**Trailer Spring Brakes**

Closes trailer supply valve	3	
Releases tractor spring brakes	3	
Applies engine power in low gear	3	
Observes vehicle response	3	

**Tractor Spring Brakes**

Ensures trailer supply valve is open	3	
Applies tractor spring brakes	3	
Applies engine power in low gear	3	
Observes vehicle response	3	

**Trailer Service Brakes**

Ensures trailer supply valve is open	3	
Releases tractor spring brakes	3	
Applies hand valve	3	
Applies engine power in low gear	3	
Observes vehicle response	3	
Releases hand valve	3	

**Service Brakes**

Ensures trailer supply valve is open	3	
Releases tractor spring brakes	3	
Moves vehicle forward	3	
Applies service brakes	3	
Ensures vehicle stops	3	

**Air-Tank Drain Valves**

Ensures system within normal pressure range	3	
Drains supply tank	3	
Drains remaining tanks	3	
Watches discharge from each tank	3	

**Measuring Applied Pushrod Stroke**

Ensures pressure is above 90 psi	3	
Releases spring brakes	3	
Takes measurement #1	3	
Raises or lowers pressure until 90-100 psi	3	
Shuts off engine	3	
Applies brake pedal	3	
Takes measurement #2	3	
Calculates applied pushstroke measurement	3	
Determines size and type of chamber	3	
Determines adjustment limit	3	
Explains comparison of calculation to limit	3	
Total Points		0

Overall Points for Competency

0

Grade

0%