

**Product Name :**  
Pneumatic Air Brake Trainer**Product Code :**  
AutomobileLab0012**Description :**

Pneumatic Air Brake Trainer

**Technical Specification :**

The Pneumatic Air Brake Trainer should provide a comprehensive system whereby the student may study and understand the principles, operational theory and maintenance of air brake systems found on trucks or large vehicles. The unit should consist of original International branded heavy duty truck pneumatic braking components, which should be mounted onto separate (Truck and Trailer) integrated floor stands, made from powder coated electro galvanized steel, that are mounted onto wheels for mobility. Air hoses should have a quick connection system, allowing for easy connections and experiments. A color coded schematic chart, under a lexon polycarbonate protective screen, of the brake system and circuit's, should also be mounted onto the trainer for reference.

**Specifications:****Components**

- A. The trainer should provide a system whereby the student may study and understand the principles of the theory and operation of compressed air brake systems as commonly found on trucks.
- B. The trainer should consist of original functional components, which are mounted onto a large board that is fitted with a wheeled stand for mobility.
- C. The trainer should have two boards, one for the truck system and one for the trailer system. Each of the components should be fitted with a pneumatic quick connect/disconnect system so that the students may quickly connect the system and components in a variety of configurations.
- D. The following components must be included:

**Main Truck Brake Board:**

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Pressure Regulator  
Air filter  
Safety protection valve  
Air reservoir tank 1  
Air reservoir tank 2  
**Quick release valve**  
Air pressure gauge  
Hand Control Valve  
Low pressure switch  
Parking brake valve  
Double check valve  
Trailer protection valve  
Drum brake assembly (2 unit)  
Ratio valve  
Foot control valve  
Brake light  
Spring brake chamber  
Diaphragm brake chamber  
Shut off valve  
Drain valve  
Trailer protection valve  
Low pressure indicator  
Trailer coupler  
Color schematic brake system diagram

**Trailer Air brake Board:**

Air storage tank circuit 3  
Brake light  
Single check valve  
Relay emergency valve  
Air pressure gauge  
Drain valve  
Safety valve  
Color schematic trailer system diagram

To come complete with comprehensive courseware, operational manual and student job Sheets which provide detailed exercises. Sample Training experimental manual to be provided during the bidding process to ensure all experiments are met.

 **LAB ENGINEERING**

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