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# **SYDNEY TRAMWAY MUSEUM**

ADVANCED DRIVING COURSE

JUNE 2007



# SYDNEY TRAMWAY MUSEUM

## **1. Purpose**

To provide the curriculum for the Advanced Driving training course for the Sydney Tramway Museum.

## **2. Scope**

This procedure sets out the minimum information that must be taught to members who want to become an Office In Charge (OIC).

## **3. Responsibilities**

The Rail Safety Management Team shall be responsible for ensuring that the training of new OIC's follows this procedure. The procedure will be reviewed on a regular basis to ensure that it covers all new tram types received by the Museum.

## **4. References**

- None

## **5. Definitions**

STM- Sydney Tramway Museum, a trading name of South Pacific Electric Railway Co-Operative Society Limited.

## **6. Actions**

### **Proposed course outline**

As the course is more practically oriented it is difficult to put together a fixed theory training procedure. However there should be progressive training path starting with taking the student through the working of all of the various cars in the museum's collection. Explaining the systems of the cars in more detail than what is required for normal traffic staff. The reason for this is to give the student a greater understanding of each car that in times of abnormal situations, the correct car can be selected to perform whatever duties might be needed (e.g. using a car like the "P" car to help rerailed another car is not a good choice because it is an automatic acceleration type control and could cause damage to both the tractor car as well as the derailed car.).

A basic outline could be thus:-

- 1) Car knowledge
  - a) Instruction in the car system, both electrical and mechanical.
  - b) Recognise the basic faults in these systems to assist in trouble shooting or to know when to fail a defective car.
- 2) Instruction in braking techniques for all types of braking used on all the cars.
- 3) Practical training on braking:

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- a) both in normal situations and driving using the brakes to smoothly tow another car;
  - b) to avoid shock loading on towbars and couplers; and
  - c) possible damage to couplers and towing points.
- 4) Practical instruction in towing cars that have no couplings or fixed points (e.g. towing derelict bodies on wheels).
- 5) Instructions in rerailing:
- a) diagram of forces of bogies on straight track, curves, etc;
  - b) deciding when to tow a car back onto the track;
  - c) when to use lifting jacks;
  - d) how and where to place the jacks on different bogies;
  - e) how to use packing during jacking operations; and
  - f) where and how to use the jacks in rerailing single truck cars.

One outcome of this course will be that the successful student will make a competent "on road" trainer and supervisor. It is Bill's opinion that all OIC's should undertake to do the entire course with the exception of item 4) above.

This is the first draft of the proposed course outline and Bill Parkinson would welcome any input from other interested parties.

*(Prepared by Bill Parkinson – Technical Services Manager)*

*Dated 22/6/07*