



# **Steam Locomotive Drivers Practical Assessment**

**PARTICIPANTS NAME:** \_\_\_\_\_

**DATE OF ASSESSMENT:** \_\_\_\_\_

**This assessment is only to be conducted by a qualified and competent assessor as nominated by the Society's Secretary as per the requirements and obligations documented in the Society's Rail Safety Management Plan.**

## **1 Role and responsibilities of a train driver on a steam locomotive**

*(Under supervision, the participant is to carry out the following tasks)*

- 1.1 Obtained, read and correctly interpreted a copy of the Society's duties of a train driver on a steam locomotive.....
- 1.2 Obtained, read and correctly interpreted copies of the Society's documents describing the statutory responsibilities of a train driver on a steam locomotive, including rail safety and safeworking requirements and regulations related to the operation of boilers.....
- 1.3 Obtained, read and correctly interpreted a copy of the standard procedures of the Society applicable to a train driver on a steam locomotive, including record keeping and the reporting of defects and incidents .....
- 1.4 Demonstrated ability to recognise hazards and hazardous situations that may be faced by a locomotive driver and to implement appropriate risk management strategies as per the Society's standard operating procedures.....
- (This may include **hypothetical hazardous situations** posed by the assessor requiring a verbal explanation by the candidate of what risk management strategies they would adopt if the hazardous situation occurred e.g. bushfire conditions, a fire incident, exposed steam pipes, broken hand rail, leaking steam pipes, etc.)*
- 1.5 Demonstrated ability to identify and use required personal protective equipment (PPE) as per the railway's safety management plan and related procedures .....
- 1.6 Demonstrated ability to hand over responsibility of the locomotive to an incoming locomotive crew as per the Society's standard operating procedures .....
- (This may include a **hypothetical handover process** posed by the assessor requiring a physical demonstration or verbal explanation by the candidate of what actions they would take to handover responsibility for a locomotive to a relieving driver)*

## 2. Preparing and starting a steam locomotive

*(Under supervision, the participant is to carry out the following tasks in a safe and efficient manner as per the Society's standard procedures for the locomotive concerned)*

- 2.1 Identified and described equipment and components on a steam locomotive (purpose, principal parts, functions and operation, and potential defects and related action).....
- ashpans
  - blower
  - blower valve
  - blow down valve
  - boiler barrel
  - clack valve
  - crosshead
  - damper
  - dome
  - expansion brackets
  - firebox
  - fusible plug
  - gauge glass
  - injectors
  - piston rods
  - regulator or throttle
  - safety valves
  - slidebars
  - steam pressure gauge
  - steam stop valve
  - tube plates
  - tubes
  - washout plug
  - whistle valve
  - gudgeon pin
  - lubricator
- 2.2 Signed on and confirmed that the fireman had signed on .....
- 2.3 Lighted fire and raised steam in conjunction with fireman .....
- 2.4 Conducted pre-start checks .....
- 2.5 Checked the brake equipment on the locomotive .....
- 2.6 Recorded, rectified, isolated and/or tagged defects and deficiencies as applicable) and/or reporting them to relevant personnel .....
- 2.7 Oiled and greased the locomotive .....
- 2.8 Maintained steam pressure .....
- 2.9 Conducted start and initial movement of the locomotive .....
- 2.10 Correctly used injectors .....
- 2.11 Checked locomotive systems are operating correctly .....

### 3. Moving a steam locomotive

*(Under supervision, the participant is to carry out the following tasks in a safe and efficient manner as per the Societies standard procedures for the locomotive concerned)*

- 3.1 Obtained and interpreted authority to move and position a steam locomotive .....
- 3.2 Adhered to yard instructions and safeworking rules .....
- 3.3 Operated locomotive controls correctly.....
- 3.4 Moved the locomotive to the required position .....
- 3.5 Secured the locomotive in position .....
- 3.6 *Blank for additional performance check?* .....

### 4. Conducting train operations

*(Under supervision, the participant is to carry out the following tasks in a safe and efficient manner as per the Society's standard procedures for the locomotive concerned)*

- 4.1 Conducted and documented a train brake test (examination).....
- 4.2 Interpreted and applied an 'Authority' to move a train .....
- 4.3 Interpreted and applied a 'Cancellation of authority to move a train' .....
- 4.4 Followed correct procedures when there is a train broken down in a section.....   
*(This may include a **simulated** scenario of a train broken down or failed in a section)*
- 4.5 Followed correct procedures where there are worksites on track.....   
*(This may include a **simulated** scenario of a worksite on track)*
- 4.6 Followed applicable safe working rules throughout the train journey.....
- 4.7 Adhered to safe working rules throughout the train journey.....
- 4.8 Shunted rolling stock correctly .....
- 4.9 Coupled and uncoupled locomotive to and from rolling stock.....
- 4.10 Handled train correctly during journey .....
- 4.11 Followed required precautions and procedures when approaching and traversing level crossings .....

- 4.12 Adhered to speed limits
- 4.13 Interpreted hand signals correctly.....
- 4.14 Observed fixed signals, point stand indicators, check points, track side signs and level crossings correctly throughout the train journey This will include either one of the locomotive crew calling the indication which is then repeated by the other locomotive crew member .....
- 4.15 Stopped and secured a train in a simulated emergency .....
- 4.16 Identified faults and defects and conducted associated trouble-shooting activities .....  
(This may include **simulated faults or defects** posed by the assessor)
- 4.17 Dealt with abnormal situations during train operations, including applicable emergency communication and evacuation procedures .....   
(This may include **hypothetical abnormal situations** posed by the assessor at various times during the journey requiring a verbal explanation by the candidate of what they would do if the abnormal situation occurred)

**5. Shutting down and stabling a steam locomotive**

*(Under supervision, the participant is to carry out the following procedures in a safe and efficient manner as per the Society's standard procedures for the locomotive concerned)*

- 5.1 Secured rolling stock (set hand brakes).....
- 5.2 Uncoupled locomotive from rolling stock .....
- 5.3 Moved locomotive to its stabling position and secured locomotive.....  
(Handbrake on, cylinder drains open, lubricator valves closed)
- 5.4 Filled boiler to prescribed level and filled side tanks.....
- 5.5 Carried out required post-operational checks .....
- 5.6 Cleaned out smoke box and dampened the fire .....   
(Chimney and firebox dampers)
- 5.7 Completed post-operational paperwork .....
- 5.8 Recorded, rectified, isolated and/or tagged defects and deficiencies (as applicable) and/or reported them to relevant personnel.....   
(This may include **simulated faults or defects** posed by the assessor)

**ASSESSORS COMENTS**

**DATE OF ASSESSMENT:** .....

**PARTICIPANTS NAME:** .....

**PARTICIPANTS SIGNATURE:** .....

**ASSESSORS NAME:** .....

**ASSESSORS SIGNATURE** .....

**RESULTS OF ASSESSMENT:**      **COMPETENT**     

**NOT YET COMPETENT**