



# Diesel Locomotive Train Driver

## Knowledge Checklist

*(Generic Version)*

Version 1

**June, 2011**

## IMPORTANT NOTICE

This booklet is one of a series of generic training and assessment templates developed by the Association of Tourist & Heritage Rail Australia Inc (ATHRA) as guides for heritage railway operators seeking to develop or upgrade their local training and assessment resources.

This booklet and others in the series are not intended to be training resources in their own right but rather to be suitably customised, embellished and adapted by railway operators to match the specific context of their own railway, e.g. types of locomotives, rollingstock and associated equipment, the track layout and infrastructure, the local standard procedures and rules, the safety management and safeworking systems, the railway organisational structure, and the roles and functions of personnel in the railway, etc.

Railway operators seeking to use this booklet and others in the series should initially refer to the ***ATHRA Customisation Guidelines Booklet*** which provides important information on how the generic templates should be used.

### **Disclaimer**

The information contained herein is made available by the Association of Tourist & Heritage Rail Australia Inc (ATHRA) as part of a set of ***generic training and assessment templates*** for use by individual heritage railway operators.

It is intended that heritage railway operators will be able to create their own local training resources by suitably modifying, embellishing and customising the generic templates to meet their own requirements.

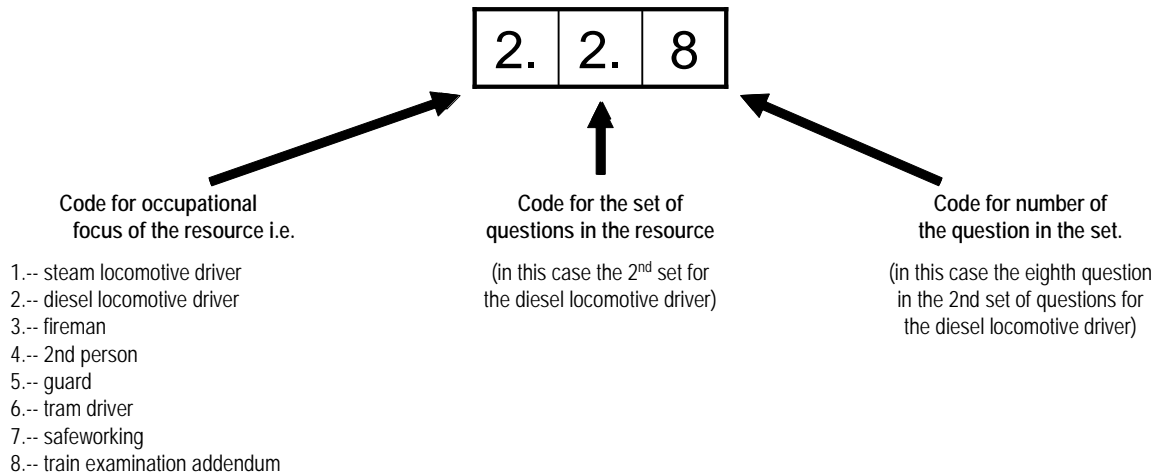
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# NOTES

## CODING SCHEME FOR THE ATHRA RESOURCES

The coding scheme for the ATHRA Resources is as follows:



## CUSTOMISATION OF QUESTIONS IN THE 'KNOWLEDGE CHECKLIST'

As explained in the ATHRA Customisation Guidelines, this *Knowledge Checklist* is a generic document designed to be customized and adapted, if necessary, by local heritage railways to match their own railway configuration, equipment, procedures, safety management systems, etc. Questions in the booklet and related sample responses in the *Mentor's Q&A Booklet* may be modified by updating the content of the existing templates to incorporate appropriate information about the railway's own operating system, equipment, road, procedures, safety management system, etc. This may involve appropriate alteration to existing questions or the insertion of additional suitable questions.

To aid in the addition of questions, if needed, a blank row has been provided at the end of each set of questions in the generic checklist. The following is a step-by-step process to incorporate any additional questions:

1. Using the mouse, select the blank row
2. In the 'TABLE' drop down menu at the top of the document select 'Insert'
3. Click on 'Insert rows below'
4. Repeat as many times as necessary until you have sufficient rows for the additional questions (including the original blank row in the generic document)
5. Insert the text for each of the additional questions
6. Insert the codes of the additional questions as per the coding scheme for the ATHRA training and assessment resources
7. Make sure there are matching questions and sample responses in the *Mentor's Q&A Booklet* with the same code

## Question Set 2.1 Role and responsibilities of a train driver on a diesel locomotive

- Q2.1.1 What are the **key tasks** performed by a diesel locomotive train driver? .....
- Q2.1.2 What is the **relationship** between the second person and the train driver? .....
- Q2.1.3 Is the train driver responsible for **observing** fixed signals, point stand indicators, check points, track side signs and level crossings?? .....
- Q2.1.4 Describe the **key safeworking rules** that apply to you as a train driver? .....
- Q2.1.5 What are the **potential consequences** of not following safeworking rules and other regulations applicable on your railway? .....
- Q2.1.6 What is the location and purpose of instruction plates outlining headways and limits of authority? .....
- Q2.1.7 For your railway, describe the yard limits, commencement of yard limits and end of yard limits associated with train running. ....
- Q2.1.8 What are the train driver's **initial duties** after signing on? .....
- Q2.1.9 What **action** must you take if you find a defect during a shift as a driver of a diesel locomotive? .....
- Q2.1.10 What **action** must you take if you are involved in a safety incident during a shift as a driver of a diesel locomotive? .....
- Q2.1.11 What **action** must you in the case of a limit of authority overrun during a shift as a driver of a diesel locomotive? .....
- Q2.1.12 Where can you obtain a **copy** of the duties of a driver, the safeworking rules applicable to drivers and other key reference documents a train driver needs? .....
- Q2.1.13 Give five reasons why **route knowledge** is so important to a train driver .....
- Q2.1.14 Give three examples of **hazards** that exist when working as a driver on a diesel locomotive. ....
- Q2.1.15 What personal protective equipment (PPE) must be used by diesel locomotive drivers when carrying out their duties and functions? .....
- Q2.1.16 Give two examples of **risk management** strategies to control hazards working as a driver on a diesel locomotive. ....
- Q2.1.17 *Blank for additional question* .....

## Question Set 2.2 Preparing and starting a diesel locomotive

- Q2.2.1 What are the **principal components** of the diesel locomotive(s) on which you will be working? What is the purpose of each? .....
- Q2.2.2 What **tasks** do drivers complete before they commence the pre-start checks on the locomotive? .....
- Q2.2.3 What **pre-start checks** will be carried out by the driver? .....
- Q2.2.4 What is involved in switching on the **batteries and control circuits**? .....
- Q2.2.5 What are the procedures for **pumping up fuel** with the priming pump? .....
- Q2.2.6 What are the procedures for **starting** the diesel engine on the locomotive? .....
- Q2.2.7 When might it be necessary for the driver to **pre-heat** the engine when starting the engine on a diesel locomotive? .....
- Q2.2.8 What are the procedures for switching on the **monitoring panel** and checking that all **systems** on the diesel locomotive are operating correctly? .....
- Q2.2.9 What should the driver do if indicators or other checks show performance of the locomotive is **outside of specifications**? .....
- Q2.2.10 *Blank for additional question*.....

Question Set 2.3 Moving a diesel locomotive

- Q2.3.1 Describe the process involved in obtaining **authority** to move and position a diesel locomotive?.....
- Q2.3.2 How should a diesel locomotive's **controls** be operated?.....
- Q2.3.3 Why is it important to remain **vigilant** when moving a diesel locomotive in a yard?.....
- Q2.3.4 Describe the process involved in **moving** a diesel locomotive to its required position in the yard? .....
- Q2.3.5 *Blank for additional question*.....

Question Set 2.4 Conducting train operations

- Q2.4.1 How does the second person **assist** the diesel locomotive driver during a train journey? .....
- Q2.4.2 What is the role of a train driver concerning fixed signals, point stand indicators, check points, track side signs and level crossings? .....

- Q2.4.3 Describe the processes involved in interpreting and applying an '**Authority to move a train**'? .....
- Q2.4.4 Describe the processes involved in interpreting and applying a '**Cancellation of authority to move a train**'? .....
- Q2.4.5 Describe the standard operating procedures and safeworking rules that need to be followed by drivers when **operating in the vicinity of worksites on the track**? .....
- Q2.4.6 How do drivers work with second persons, guards and shunters when **coupling** a locomotive to rollingstock? .....
- Q2.4.7 Describe the standard operating procedures and safeworking rules that need to be followed by drivers when **shunting rollingstock** to form a train? .....
- Q2.4.8 How should a driver **handle** a train? .....
- Q2.4.9 During a train journey, what is the role of a train driver concerning fixed signals, point stand indicators, check points, track side signs and level crossings? .....
- Q2.4.10 Why is it important for the train driver to remain **vigilant** at all times during a train journey? ....
- Q2.4.11 What are the responsibilities of a train driver concerning **speed limits** along a train's route? ...
- Q2.4.12 Describe the precautions a train driver should follow when **approaching and stopping** at stations along a train's route? .....
- Q2.4.13. What are five examples of **abnormal situations** that may occur during a train journey and what is the role of the train driver in responding to these abnormal situations? .....
- Q2.4.14 What action should be taken in the event of the failure of a headlight or a whistle? .....
- Q2.4.15 Who is in charge of a site when an emergency occurs on a train? .....
- Q2.4.16 Why is it important that a train driver can give and interpret **hand signals**? .....
- Q2.4.17 Describe the method of safe working on your railway and what actions you as diesel locomotive driver need to take in relation to the authority to enter a section.....
- Q2.4.18 *Blank for additional question* .....

### Question Set 2.5 Shutting down and stabling a diesel locomotive

- Q2.5.1 Describe the procedures for moving a diesel locomotive to its **stabling position** in the yard? .....
- Q2.5.2 Describe the **post-operational checks** you must conduct for the diesel locomotive after service .....

- Q2.5.3 What **action** should be taken if faults or defects are identified during post-operational checks of the diesel locomotive and its equipment? .....
- Q2.5.4 How is the diesel locomotive **secured** in its stabling position? .....
- Q2.5.5 What **other tasks** might a locomotive driver undertake after securing the diesel locomotive? .....
- Q3.5.6 What **paperwork** must be completed after the locomotive is stabled and secured? .....
- Q3.5.7 *Blank for additional question* .....

## RECORD OF THE KNOWLEDGE ASSESSMENT

Name of Rail Operator .....

Date assessment completed .....

Name of candidate .....

Signature of candidate .....

Name of the person conducting the assessment.....

Signature of the person conducting the assessment.....

Number of questions satisfactorily answered .....  
(as per the ticked boxes on checklist)

COMMENTS OF THE PERSON CONDUCTING THE ASSESSMENT