

Module TW8

existing section / clause number	existing text	Responsibility indicator	Rule Book module	Handbook	Procedure	Company Instruction	Training & Assessment	legislation	remove / delete	Remarks
1	General information									
1.1	Locations of level crossings									
	The locations of manned, automatic, open and traincrew-operated level crossings are set out in Table A of the Sectional Appendix					✓				
1.2	Types of level crossing									
	<p>This module covers the equipment and operation of the following types of level crossing:</p> <p>Automatic crossings Automatic half-barrier crossing AHBC Automatic barrier crossing locally monitored ABCL Automatic open crossing locally monitored AOCL Crossing with red and green warning lights R/G</p> <p>Manually controlled At the location: Manned crossing with barriers MCB Manned crossing with gates MG Remotely: Remotely controlled crossing with barriers RC Barrier crossing with closed-circuit television CCTV</p> <p>Traincrew operated TMO Open (no barriers, gates or road traffic signals) Open crossing (non-automatic) without road warning lights OC</p> <p>Barrow or foot crossing with white light indicators User-worked Crossing with red and green warning lights R/G Occupation and accommodation (including bridleway) UWC crossing with a telephone</p>									Manually controlled changed to Controlled crossings, also added to TS9. TW8 1, TS9 1
2	Drivers' general instructions									
2.1	Speed of trains approaching automatic or open level crossings									
	You must keep within the permitted speed on the approach to an automatic or open level crossing so that road users have enough warning time	driver				✓				
2.2	Wrong-direction movements									
	a) Wrong-direction controls									
	Some automatic level crossings have controls that allow the crossings to be operated by trains making wrong-direction movements. These crossings are identified in the Sectional Appendix by the letter X (for example, AHBC-X or AOCL-X)	driver				✓				

Module TW8

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3	Automatic half-barrier crossings (AHBC)									
3.1	Equipment and operation									
	An AHBC has: <ul style="list-style-type: none"> • half barriers and road traffic signals which are operated automatically by approaching trains • telephones linked directly to the supervising signal box 					✓				
	The signaller monitors the operation of the crossing remotely by using the indications in the supervising signal box					✓				
3.2	Failed train occupying crossing controls									
	If your train has failed and the signaller reminds you about the presence of the level crossing, you must assure the signaller that you will make no further movement with your train until the signaller authorises it	driver	✓							TW8 3.
3.3	When an attendant is on duty at the crossing									
	a) Attendant arriving at the crossing									
	You must have the following equipment with you: <ul style="list-style-type: none"> • the keys of the local control units • two red flags • a green flag • two red lights • a handlamp that can show a green light 	level crossing attendant			✓					
	You must report your arrival at the crossing to the signaller and find out what is happening	level crossing attendant		✓						HB18 1
	You must not open the door to the local control unit until the signaller tells you to do so	level crossing attendant		✓						HB18 1
	Opening the local control unit before the signaller gives you permission may cause an alarm to activate in the signal box	level crossing attendant				✓				
	b) Taking local control									
	You must put the crossing on local control when told to do so by the signaller	level crossing attendant		✓						HB18 2.1
	You must then move the switch in the local control unit from the 'Auto' position	level crossing attendant				✓				
	If the barriers cannot be operated by the local control switch, you must place the switch in the 'Lower/Hand' position. You must then use the pump handles in each barrier pedestal	level crossing attendant				✓				
	While the barriers are raised, you must display a red flag by day (a red light during darkness, fog or falling snow) at each end of the crossing and they must be clearly visible to the driver of any train which may approach. The red flag or lamp may be fixed in or placed on the ground	level crossing attendant		✓						HB18 2.2

Module TW8

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		Responsibility indicator	Rule Book module	Handbook	Procedure	Company Instruction	Training & Assessment	legislation	remove / delete	
c) After local control has been taken										
	The signaller will tell you about each approaching train but you must be alert for trains at all times	level crossing attendant					✓			
	When the signaller tells you that a train is approaching the crossing, you must lower the barriers in time to avoid delaying the train	level crossing attendant		✓						HB18 2.2
	If you are operating the barriers with the pump handles, you must first lower one barrier just enough to activate the red road signals and then lower both barriers fully.	level crossing attendant		✓						HB18 2.2 Now about operating the barriers by hand and matches the CCTV instructions.
	When it is safe for a train to pass over the crossing you must remove the red flag or red light and show a green handsignal to the driver. You must take care that road users do not mistake this handsignal for permission to cross	level crossing attendant		✓						HB18 2.2
	If the protecting signal is close to the crossing, you must make sure that the train has passed the signal or that the driver has been authorised to pass the signal before showing the green handsignal	level crossing attendant		✓						HB18 2.2
	After a train has passed over the crossing, you may raise the barriers if the train was complete with a tail lamp and no other train is approaching	level crossing attendant		✓						HB18 2.2 No longer a requirement to check for tail lamp.
	If a train passes without a tail lamp, you must tell the signaller immediately and not raise the barriers until you are sure that no part of a divided train is approaching	level crossing attendant						✓		Removed as risk of a divided train that is able to continue is now considered remote.
d) When local control is no longer necessary										
	The signaller will tell you when normal working is to be resumed. You must then: <ul style="list-style-type: none"> • if, you have operated the barriers by the pump handles, return the handles to their normal (stowed) position • make sure the barriers are lowered • place the local control switch in the 'Auto' position • close and lock the local control unit door • make sure the barriers rise automatically 	level crossing attendant					✓			First part only HB18 4
	You must tell the signaller when you have done this. You must not leave the crossing until the signaller tells you that you can do so	level crossing attendant		✓						HB18 4
	You must return the keys and equipment to the place where they are normally kept	level crossing attendant					✓			
3.4 Driver carrying out the signaller's instructions										
	You must carry out the signaller's instructions when you approach an AHBC under abnormal situations	driver					✓			

Module TW8

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	You must have the following equipment with you: • the keys of the local control units • a red flag • a green flag • a handlamp that can show a red and a green light	level crossing attendant				✓				
	You must report your arrival at the crossing to the signaller and find out what is happening	level crossing attendant	✓							HB18 1
	You must not open the door to the local control unit until the signaller tells you to do so.	level crossing attendant	✓							HB18 1
	Opening the local control unit before the signaller gives you permission may cause an alarm to activate in the signal box	level crossing attendant				✓				
b) When the attendant is on duty but the crossing is not on local control										
	If the signaller cannot get a satisfactory picture of the crossing, you will be told when the barriers are about to be lowered. While the barriers are being lowered, you must tell the signaller if it becomes necessary to stop the lowering process	level crossing attendant		✓						HB18 3.1
	You must tell the signaller when the barriers are fully lowered and the crossing is clear	level crossing attendant	✓							HB18 3.1
	Trains will then be signalled normally over the crossing	level crossing attendant				✓				
	If the movement is in a direction for which a signal is not provided, or for any movement in a possession, the train driver will be told to approach the crossing cautiously. When the barriers have been lowered, the signaller will tell you to display a green handsignal to the driver as authority to proceed	level crossing attendant		✓						HB18 3.1
	If it has been agreed with the signaller that the barriers will be kept lowered until road traffic is to pass, you must immediately tell the signaller about any road vehicle or person wanting to pass over the crossing	level crossing attendant		✓						HB18 3.1
c) Taking local control										
	You must put the crossing on local control when told to do so by the signaller. If the barriers are already lowered, you must not raise them until the signaller tells you to do so.	level crossing attendant		✓						HB18 3.2
	You must then move the switch in the local control unit to the 'Local' position	level crossing attendant				✓				
	If the barriers cannot be operated by the 'Raise' or Lower' buttons, you must place the switch in the 'Hand' position. You must then use the pump handles in each barrier pedestal	level crossing attendant		✓						HB18 3.3

Module TW8

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	The signaller will tell you about each approaching train. You must immediately lower the barriers and tell the signaller when the barriers are fully lowered and the crossing is clear	level crossing attendant	✓							HB18 3.3
	If you are operating the barriers by hand, you must first lower one barrier just enough to activate the red road signals. You may then lower the barrier fully. You must lower nearside barriers first and raise them last	level crossing attendant	✓							HB18 3.3
	The signaller will tell the train driver what is happening and authorise the protecting signal to be passed at danger	level crossing attendant				✓				
	If the movement is in a direction for which a signal is not provided, or for any movement in a possession, the train driver will be told to approach the crossing cautiously. When the barriers have been lowered the signaller will tell you to display a green handsignal to the driver as authority to proceed	level crossing attendant						✓		Information
	After the train has passed over the crossing complete with tail lamp, you must ask the signaller for permission to raise the barriers. If a train passes without a tail lamp, you must not raise the barriers until you and the signaller are both sure that no part of a divided train is approaching	level crossing attendant	✓							HB18 3.3 No longer a need to check tail lamp.
	If a barrier does not rise in response to the button, you must immediately stop the raising sequence. You must lower any barriers that have started to rise as soon as it is safe to do so. The barriers must then be operated by hand	level crossing attendant	✓							HB18 3.3
	d) When local control is no longer necessary									
	The signaller will tell you when normal working is to be resumed. You must then: <ul style="list-style-type: none"> • if you have operated the barriers by the pump handles, return the handles to their normal (stowed) position • make sure the barriers are lowered • place the local control switch in the 'Remote' position • close and lock the local control unit door 	level crossing attendant	✓							HB18 4
	You must tell the signaller when you have done this. The signaller will then test that the barriers work correctly from the signal box	level crossing attendant	✓							HB18 4
	You must not leave the crossing until the signaller tells you that you can do so	level crossing attendant	✓							HB18 4
	You must return the keys and equipment to the place where they are normally kept	level crossing attendant				✓				

Module TW8

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	During certain failures of the crossing equipment the signaller will instruct you to: • approach the level crossing at caution • not pass over it until you are sure it is safe to do so	driver	✓							TW8 2.2
8.2	Train failing between the protecting signal and the level crossing									
	If your train fails between the protecting signal and a crossing operated by a crossing keeper, you must assure the signaller that you will make no further movement with your train until the signaller authorises it	driver	✓							TW8 3.
9	Traincrew-operated crossings (TMO)									
9.1	Equipment and operation									
	These crossings are equipped with barriers (with or without road traffic signals) or gates	driver				✓				
	The barriers or gates are operated by a nominated person, who will have the keys or other equipment to do this	driver				✓				
9.2	Passing over the crossing									
	a) Controlling train speed									
	On passing the warning board (see the diagram in section 4.2 a) or distant signal, you must control the speed of your train to stop: • at the stop board, or • well short of the crossing if there is no stop board	driver				✓				
	b) Closing the crossing to road traffic									
	After your train has stopped, a nominated person will operate the barriers or gates to close the crossing to road traffic	driver				✓				
	c) If a white flashing light is provided at the crossing									
	If a white flashing light is provided next to the stop board, you must pass over the crossing only: • if the white light is flashing, or • if the white light is not flashing, it is safe to do so	driver			✓					Such crossings are uncommon and most have power worked barriers which are dealt with by sectional appendix local instructions so it is more logical for the white light to also be dealt with by sectional appendix instructions.
	d) Opening the crossing to road traffic									
	After your train has passed over the crossing, a nominated person will: • raise the barriers fully and relock the barrier control unit, or • open the gates to road traffic and relock them	driver				✓				
10	Occupation and accommodation (including bridleway) level crossings									
10.1	Equipment and operation									
	These crossings have user-worked gates or barriers	driver				✓				

Module TW8

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	<p>If a crossing user has failed to contact the signaller after taking a small-wheeled trolley over the crossing, the signaller will instruct you to:</p> <ul style="list-style-type: none"> • approach the crossing at caution • not pass over it until you are sure it is safe to do so • tell the signaller whether the crossing is safe for the passage of trains. 	driver	✓						TW8 2.2	