

# Module T8

Existing Section/ Clause Number	Existing Text	Responsibility Indicator	Rule Book module	Handbook	Procedure	Company Instruction	Training & Assessment	Legislation	Remove / delete	Performance +/-	Manpower +/-	Remark
<b>1</b>	<b>Competence and when handsignals have to be used</b>	Handsignaller										
<b>1.1</b>	<b>Competence</b>	Handsignaller										
	You must be certified as competent to carry out these duties.	Handsignaller		✓								HB5
<b>1.2</b>	<b>When handsignals have to be used</b>	Handsignaller										
	You will be appointed at a location where it is necessary to give a signal to a driver which cannot be given by a fixed signal.	Handsignaller		✓								HB5
	You will need to give handsignals to a driver when: <ul style="list-style-type: none"> <li>• <b>protecting engineering work on a line not under a possession</b></li> <li>• <b>a signal is defective or cannot be cleared</b></li> <li>• temporary block working is in operation</li> <li>• single line working is in operation.</li> </ul>	Handsignaller		✓					✓	✓		HB5 Delete red text. Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	You will not be asked to carry out handsignalling duties for any other purpose.	Handsignaller		✓								In HB 5
<b>2</b>	<b>Equipment</b>	Handsignaller		✓								
	When you are carrying out the duties of a handsignaller, you must have the following with you: <ul style="list-style-type: none"> <li>• a red and a yellow flag</li> <li>• a handlamp which can show a red and a yellow light</li> <li>• enough detonators for the task</li> <li>• clips and scotches (if necessary)</li> <li>• signal post replacement key (if necessary)</li> <li>• Temporary Block Working Tickets RT3184 (if necessary).</li> </ul>	Handsignaller					✓					
<b>3</b>	<b>General instructions</b>	Handsignaller										
<b>3.1</b>	<b>Handling and using detonators safely</b>	Handsignaller										
	You can find the arrangements for handling and using detonators safely in section 3.9 of module G1 General safety responsibilities.	Handsignaller		✓								In HB2 and HB5
<b>3.2</b>	<b>Placing detonators on the line at a signal</b>	Handsignaller										
	If you are required to place three detonators on the line at a signal, you must place one next to the signal and the other two beyond the signal 20 metres (approximately 20 yards) apart.	Handsignaller		✓								HB2
	You must not place any detonators on the approach to a signal.	Handsignaller							✓			
	See diagram T8.1 on page 7.	Handsignaller							✓			
	Placing detonators on the line at a signal Diagram T8.1	Handsignaller							✓			

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<b>3.3</b>	<b>Placing detonators on the line when not at a signal</b>	Handsignaller										
	If you expect detonators to be exploded, you must make sure the detonators are placed far enough from you so that the driver has enough time to see your handsignal after exploding the detonators.	Handsignaller		✓								HB2
	See diagram T8.2 on page 9	Handsignaller					✓					
<b>3.4</b>	<b>Replacing exploded detonators</b>	Handsignaller										
	You must immediately replace any detonators that have been exploded.	Handsignaller					✓					
<b>3.5</b>	<b>Giving instructions to drivers</b>	Handsignaller										
	You must come to a clear understanding with the signaller before giving a driver instructions.	Handsignaller		✓								HB1 Covered in the communications section
	When giving instructions you must make sure: <ul style="list-style-type: none"> <li>• they are what the signaller told you</li> <li>• you reach a clear understanding with the driver.</li> </ul>	Handsignaller		✓								HB1 Covered in the communications section
	Placing detonators on the line when not at a signal Diagram T8.2	Handsignaller							✓			
<b>3.6</b>	<b>Staying in position</b>	Handsignaller										
	You must stay in position until another handsignaller takes over from you, or the person shown below who appointed you tells you that you are no longer needed.	Handsignaller		✓								HB5
	This person will depend on the circumstances. It may be one of the following:	Handsignaller		✓								
	<ul style="list-style-type: none"> <li>• <b>A protection controller (PC) or controller of site safety (COSS) when protecting engineering work on a line not under a possession.</b></li> <li>• A pilotman during single line working.</li> <li>• A signaller in connection with: <ul style="list-style-type: none"> <li>- <b>a defective or disconnected signal</b></li> <li>- <b>a signal that cannot be cleared because of the failure of signalling or level crossing equipment</b></li> <li>- <b>protection of the line where the AC traction current is switched off</b></li> <li>- temporary block working.</li> </ul> </li> </ul>	Handsignaller		✓						✓	✓	HB5, Delete red text. Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
<b>4</b>	<b>Engineering work not under a possession</b>	Handsignaller										
<b>4.1</b>	<b>Where to position yourself</b>	Handsignaller										
	You must position yourself where the controller of site safety (COSS) or protection controller (PC) tells you.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.



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	<p>You must:</p> <ul style="list-style-type: none"> <li>• check the signal is showing a proceed aspect</li> <li>• if it is not showing a proceed aspect, immediately contact the signaller</li> <li>• if it is showing a proceed aspect, get permission from the signaller to key the signal to danger</li> <li>• key the signal to danger</li> <li>• check the signal is at danger</li> <li>• tell the signaller when you have done this</li> <li>• show a red handsignal</li> <li>• place three detonators on the line 20 metres (approximately 20 yards) apart</li> <li>• keep the signal at danger until it is safe for trains to pass.</li> </ul>	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	See diagram T8.1 on page 7.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	<p>When you are told by the COSS or PC that the line is safe for trains to start running again, you must:</p> <ul style="list-style-type: none"> <li>• remove the detonators and the red handsignal, and</li> </ul>	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance
	<ul style="list-style-type: none"> <li>• get permission from the signaller before restoring the signal to automatic working.</li> </ul>								✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
<b>4.5</b>	<b>Positioned where there is no signal box or signal</b>	Handsignaller										
	<p>You must:</p> <ul style="list-style-type: none"> <li>• show a red handsignal to any approaching train</li> <li>• place three detonators on the line 20 metres (approximately 20 yards) apart</li> <li>• immediately replace any detonators which have been exploded.</li> </ul>	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	See diagram T8.2 on page 9	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.

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Existing Section/ Clause Number	Existing Text	Responsibility. Indicator	Rule Book module	Handbook	Procedure	Company Instruction	Training & Assessment	Legislation	Remove / delete	Performance +/-	Manpower +/-	Remark
	When you have been told by the COSS or PC that the line is safe for trains to start running again, you must remove the detonators and the red handsignal.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
<b>4.6</b>	<b>Clearance of a junction signal</b>	Handsignaller										
	If a junction signal is cleared for a route that is not affected by the engineering work, you must remove the detonators if it is safe to do so and also the red handsignal.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	You must not attempt to remove the detonator in any situation if it would be dangerous to do so, for example if the train is close to you or visibility is poor.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	You must again show the red handsignal and replace the detonators immediately when the train has passed the junction signal, or the signal is replaced to danger without the train having passed it.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
<b>5</b>	<b>Not used</b>	Handsignaller										
<b>6</b>	<b>Not used</b>	Handsignaller										
<b>7</b>	<b>Defective or disconnected signalling equipment</b>	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
<b>7.1</b>	<b>Where to position yourself</b>	Handsignaller										
	You must position yourself where the signaller tells you. This will be at: <ul style="list-style-type: none"> <li>• a signal</li> <li>• the place where the signal would normally be</li> <li>• a signal box.</li> </ul>	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	You must report your arrival to the signaller immediately, wherever you are positioned.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.

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<b>7.2</b>	<b>Stop signals</b>	Handsignaller										
	At a stop signal you must: <ul style="list-style-type: none"> <li>• show a red handsignal to each approaching train until the train has stopped</li> <li>• place a detonator on the line to which the signal applies, as shown in section 3.2 of this module.</li> </ul>	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	If a train is to proceed, you must reach a clear understanding with the signaller before you give instructions to the driver.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	You must then, in the following order: <ul style="list-style-type: none"> <li>• repeat to the driver the instructions given to you by the signaller</li> <li>• reach a clear understanding with the driver</li> <li>• tell the driver not to move the train until you show a yellow handsignal</li> <li>• remove the detonator from the line</li> <li>• show a yellow handsignal.</li> </ul>	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	For your own safety, you must not show a yellow handsignal until you have removed the detonator.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	You must again show the red handsignal and replace the detonator immediately the train has passed.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
<b>7.3</b>	<b>If a train is not to be stopped</b>	Handsignaller										
	If the signaller tells you it is not necessary to stop the train because the driver has already been given the necessary instructions, you must in the following order: <ul style="list-style-type: none"> <li>• remove the detonator from the line</li> <li>• show a yellow handsignal.</li> </ul>	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.
	You must only attempt to remove the detonator if it is safe to do so.	Handsignaller							✓	✓	✓	Reduction in manpower, HS will only be used for TBW and SLW. Also performance benefits as a lot of SPADs and irregularities are caused by handsignaller error.



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	Your responsibilities will be to: <ul style="list-style-type: none"> <li>• stop trains</li> <li>• give messages and instructions from the signaller to the driver.</li> </ul>	Handsignaller					✓					
	During an extensive failure or extensive disconnection of signalling equipment, temporary block working can be introduced on a track circuit block double or multiple line (but not on a single line). Temporary block working allows the driver, with the signaller's permission, to pass at danger two or more consecutive signals which normally display a main aspect.	Handsignaller					✓					
	Temporary block working Diagram T8.4	Handsignaller		✓								HB5
<b>8.2</b>	<b>Method of working</b>	Handsignaller										
	A signal will be selected to control the entrance to the section and a signal will be selected to control the exit of the section.	Handsignaller					✓					
	The signaller will personally instruct the driver to enter the temporary block working section to: <ul style="list-style-type: none"> <li>• assist a failed train</li> <li>• evacuate passengers from a failed train</li> <li>• remove the rear portion of a divided train</li> <li>• remove a train or vehicle which has proceeded without authority.</li> </ul>	Handsignaller					✓					
	It will not be necessary to issue the driver with a Temporary Block Working Ticket (RT3184) in these circumstances.	Handsignaller					✓					
	There may be more than one temporary block working section	Handsignaller					✓					
<b>8.3</b>	<b>When you arrive at the entrance signal</b>	Handsignaller										
	You must report your arrival to the signaller	Handsignaller					✓					
	If the signal is equipped with a signal post replacement switch, you must: <ul style="list-style-type: none"> <li>• get permission from the signaller to operate the signal to danger</li> <li>• operate the signal to danger</li> <li>• check the signal is at danger</li> <li>• tell the signaller when you have done it</li> <li>• keep the signal at danger until temporary block working is withdrawn.</li> </ul>	Handsignaller		✓								HB5
	In every case you must then: <ul style="list-style-type: none"> <li>• show a red handsignal to each approaching train until the train has stopped</li> <li>• place a detonator on the line as shown in section 3.2 of this module</li> <li>• <b>tell the signaller when a train arrives</b></li> </ul>	Handsignaller		✓								HB5 Red text deleted





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	<b>a) When a train has stopped</b>	Handsignaller										
	When a train has stopped, the signaller will tell you when it can proceed and what instructions to give the driver	Handsignaller		✓								HB5
	You must reach a clear understanding with the signaller before giving instructions to the driver.	Handsignaller		✓								HB1, Covered in the communications section
	Trains travelling in the wrong direction Diagram T8.5	Handsignaller		✓								
	You must then, in the following order: • repeat to the driver the instructions given to you by the signaller • <b>reach a clear understanding with the driver</b> • <b>tell the driver not to move the train until you show a yellow handsignal</b> • remove the detonator from the line • show a yellow handsignal.	Handsignaller		✓								HB5, Remove red text
	For your own safety, you must not show a yellow handsignal until you have removed the detonator.	Handsignaller					✓					Text reworded to control this risk
	You must again show the red handsignal and replace the detonator immediately the train has passed unless the signaller tells you otherwise.	Handsignaller		✓								HB5
	<b>b) When trains are to be stopped and set back over a crossover</b>	Handsignaller										
	If a train is to draw forward and then set back over a crossover to return to the right line, before allowing a train to draw forward, you must: • stop every train, and • remind the driver what is to be done.	Handsignaller							✓			Not a handsignallers responsibility
	When authorised by the signaller, you must then carry out the instructions in 9.2 a).	Handsignaller							✓			Not a handsignallers responsibility
	You must again show the red handsignal and replace the detonator immediately the train has passed unless the signaller tells you otherwise.	Handsignaller							✓			Not a handsignallers responsibility
	See diagram T8.6 on page 31.	Handsignaller							✓			Not a handsignallers responsibility
	In this situation these are the only responsibilities you have as a handsignaller.	Handsignaller							✓			Not a handsignallers responsibility
	When trains are to be stopped and set back over a crossover Diagram T8.6	Handsignaller							✓			Not a handsignallers responsibility
	<b>c) If a train is not to be stopped</b>	Handsignaller										
	If the signaller tells you it is not necessary to stop the train because the driver has already been authorised to obey your handsignal, you must, in the following order: • remove the detonator from the line • show a yellow handsignal.	Handsignaller		✓								HB5
	You must only attempt to remove the detonator if it is safe for you to do so.	Handsignaller					✓					

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	See diagram T8.7 on page 33.	Handsignaller							✓			
	If a train is not to be stopped Diagram T8.7	Handsignaller							✓			
<b>9.3</b>	<b>Trains travelling in the right direction</b>	Handsignaller										
	You do not need to handsignal or stop trains travelling on the single line in the right direction.	Handsignaller		✓								HB5
	When a train is approaching you in the right direction, you must remove the detonator and the red handsignal.	Handsignaller		✓								HB5
	You must not attempt to remove the detonator in any situation if it would be dangerous to do so, for example if the train is close to you or visibility is poor.	Handsignaller					✓					
	When the train has passed you in the right direction, you must again show the red handsignal and replace the detonator unless the signaller tells you otherwise.	Handsignaller		✓								HB5
<b>9.4</b>	<b>Single line working on multiple track circuit block lines where more than one running line is available</b>	Handsignaller										
	Single line working may be introduced over one of the unobstructed lines if all of the following apply: • there are more than two running lines • all lines in one direction are blocked • two or more lines in the opposite direction remain open.	Handsignaller					✓					Handsignaller does not need to know this.
	You must: • position yourself where the pilotman tells you • carry out the instructions in sections 9.2 to 9.3 • place a detonator on the line in each direction on the approach to the portion of line where conflicting movements could happen.	Handsignaller					✓					Pilotman will position handsignaller (ist Rule of 9.1 above)
	When the signaller tells you a train can proceed, you must remove the correct detonator and then show a yellow handsignal.	Handsignaller					✓					Already stated above