

Balfour BeattyRail

Fatigue

What you need to know



BE FIT FOR WORK

WHAT IS FATIGUE?

ORR Definition: "a state of perceived weariness that can result from prolonged working, heavy workload, insufficient rest and inadequate sleep"

A fatigued person will be less alert, less able to process information, will take longer to react and make decisions and will be less interested in working compared to a person who is not fatigued. They may tolerate risks they would normally find unacceptable.

Fatigue increases the likelihood of errors and adversely affects performance, especially in tasks requiring:

Vigilance and monitoring

- Decision making
- Awareness
- Fast reaction time
- Tracking ability
- Memory



BE FIT FOR WORK

FACTS

Being awake for around 17 hours has been found to produce impairment on a range of tasks equivalent to that associated with a blood alcohol concentration above the drink driving limit for most of Europe.

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- Poor performance due to fatigue is particuarly apparent with repetitive tasks taking longer than 30 minutes to complete
- Almost 20% of all accidents on major roads are sleep related
- Fatigue cannot be prevented by personality, intellect, skill, motivation or knowledge.
- Being awake for 24 hours produces impairment worse than that associated with a blood alcohol concentration above the legal limit for driving on UK's roads.



WHAT CAN CAUSE FATIGUE?

- The incidence of **health problems** such as sleep, gastrointestinal and cardiovascular disorders has been estimated to be greatest in shift workers rather than day workers.
- There is mounting evidence that working long weekly hours over long periods increases the risk of accidents and incidents.
- Loss of sleep "acute", for example having 5 hours sleep instead of the usual 8; or "cumulative" having 7 hours sleep instead of the usual 8 over each of several days.
- Poor Quality sleep lots of interruptions.
- Having to work at a "low point" in the day e.g. early hours of the morning; mid to late afternoon and after a meal.
- Long working hours, particularly if these are as long as 14 to 15 hours.
- Poorly-designed shift patterns.
- Inadequate breaks during the working day.

BE FIT FOR WORK

WHAT ARE THE EFFECTS OF FATIGUE?

- Find it hard to:
 - concentrate
 - make clear decisions
 - take in and act on information
- Have more frequent lapses of attention or memory
- React more slow
- Make more errors

Occasionally fall asleep at work

Have little motivation or interest in work

Be irritable





RECOGNISING FATIGUE

Likely level of Fatigue	Signs /Symptoms
Early warning signs. These should prompt people to look out for more conclusive evidence of fatigue.	FidgetingRubbing the Eyes
Signs of moderate fatigue. Performance is being affected, Take these seriously - it is not necessary to fall asleep to make a critical error.	•Frequent yawning •Staring blankly •Frequent blinking
Signs of severe fatigue. Liable to brief uncontrolled 'micro-sleeps', risk of errors very high.	Nodding head Difficulty keeping eyes open and focussed Long Blinks

^{**} Individuals are not good at assessing how fatigued they are.

WHO IS MOST AT RISK?

Type of Work	Likely significant risks from fatigue
No shift work, no significant overtime, no Safety Critical Work.	Low
Some shift work and / or significant overtime but no Safety Critical Work.	Medium to High
Safety Critical Work	High



WHAT DOES THE LAW SAY?

Health and Safety at Work etc Act 1974 (HSWA)

Sections 2(1) and 3(1) place general duties on employers to reduce risk so far as is reasonably, including risk from staff fatigue.

Section 7 requires employees to co-operate with their employer by for instance ensuring they are adequately rested to do their work safely, and by reporting any concerns about fatigue promptly to their employer.

Management of Health and Safety at Work Regulations 1999 (MHSWR)

Employers to assess risks arising from their operations, including risk from staff fatigue, and to put in place effective arrangements for planning, organisation, control, monitoring and review of these controls.



WHAT MUST YOUR EMPLOYER DO?

- Review roster patterns to identify areas where fatigue is likely.
- "Reality Check" Consult with the workforce to find out how they are affected.
- Collaborate to amend shift patterns to reduce the likelihood of fatigue.
- Assess, record, monitor and control when staff work outside of the planned shift patterns.
- Inform and educate the workforce



HOW IS FATIGUE MANAGED?

The office of Rail Regulation has published a comprehensive guide called 'Managing Rail Staff' which recommends a 9 step approach.

The 9-Step Approach:

- 1) Identify Safety critical Workers
- Setting Standards and design working patterns
- 3) Limiting Exceedance
- 4) Consulting with your workforce
- 5) Recording the arrangements
- 6) Providing information to workers
- 7) Monitoring
- 8) Take action when workers are fatigued
- 9) Reviewing the arrangements

BE FIT FOR WORK WHAT AFFECTS FATIGUE?

- Start Times of shifts
- Breaks when on site
- Nature of work being undertaken
- Length of shift patterns at night
- Changes between day and night shifts
- Number of consecutive shifts at night

WHAT CAN YOU DO?

- Get the required amount of sleep
- Tell your manager if you have any sleep conditions
- Consider future shifts when planning off duty lives
- Declare if you have a second job
- Participate in any fatigue related training events
- Avoid excessive use of stimulants and sedatives
- Ask for hotel accommodation if required



KNOWING YOUR LIMIT?

- Recognise when you have not had enough rest.
- 14 hours Door to Door.
- Maximum 12 hour shift.
- O Maximum consecutive shifts (13 NR 12 LU).
- 12 hours between booking off and booking on shift.
- Inform your line manager.
- Risk Assessment
- Find alternative work
- Ocontact HGCC on 02082977400 if you require a hotel to be arranged
- Report any concerns that you have (Close Call)

For further information: HSE Website: http://www.hse.gov.uk/ for hints and tips for shift workers or the BUPA Website: http://www.bupa.co.uk.

You can also contact your local SHEQ advisor or BBR Occupational Health Responsible Person.



Balfour Beatty Rail

Balfour Beatty Rail Limited Stockly House 130 Wilton Road London **SW1V 1L0**

- t +44 (0) 207 216 6800 e info@bbrail.com

www.bbrail.com

