

Foot comfort and safety in Managing Risks in the Logistics and E-commerce industry

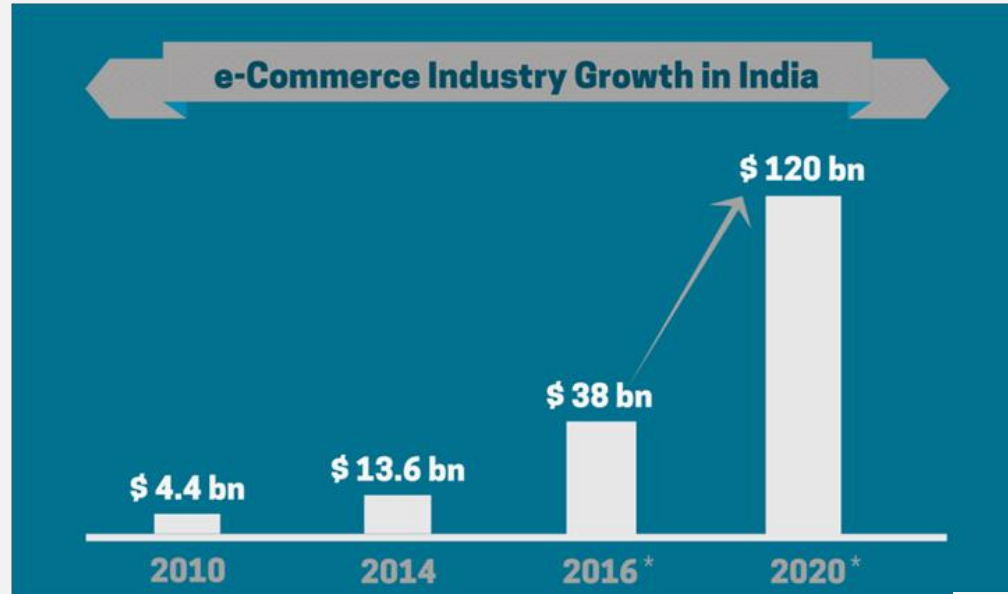


Logistics industry



- * **Backbone of most business especially the manufacturing sector**
- * **Current India market size \$ 160 Billion**
- * **Expected to touch \$ 215 Billion by 2020**

E-commerce Industry



What is Risk Management

Careful examination of what in your work could cause harm to people.

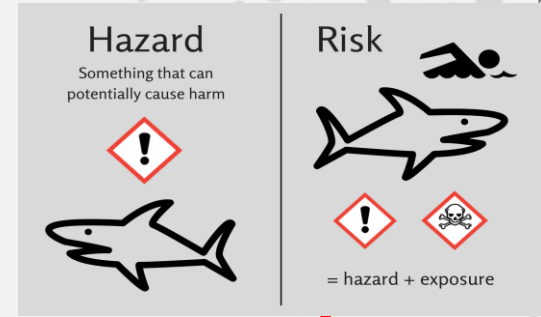
Weigh up whether enough precautions taken or should more be done to prevent harm.

Workers and others have a right to be protected from harm caused by a failure to take reasonable control measures.



Hazard or Risk ?

Important to be able to identify the difference between a hazard and a risk



Hazard is anything that may cause harm such as chemicals, electricity, working from height or machinery

A risk is the chance , high or low that someone could be harmed by a hazard together with an indication how serious the harm could be .

Logistics Safety Awareness

- The fatal injury rate for the logistics industry is higher than the national average for all industries
- Several potential hazards for workers in the logistics field:
 - Slips, Trips and Falls
 - Materials Handling
 - Back Injury
 - PPE



Why is foot safety important

Two major categories of work-related foot injuries

First category includes foot injuries from punctures, crushing, sprains and lacerations.



Second group of injuries includes those resulting from slips, trips and falls



What are some causes of foot problems

Foot problems

Common Causes

Severely aching feet, blisters, calluses, rheumatism, malformation of toes, fallen arches (flat feet), sprains

Long periods of standing, hard flooring and poorly fitted footwear .

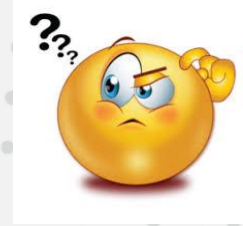
Sweaty feet, fungal infections.

Hot and humid environment, strenuous work, footwear with synthetic (non porous) uppers .

What are some specific examples of workplace foot injuries

| Injuries | Common causes |
|--|--|
| Crushed or broken feet, amputations of toes or feet | Feet trapped between objects or caught in a crack, falls of heavy objects, moving vehicles like lift trucks , conveyor belts (feet drawn between belt and roller) |
| Punctures of the sole of the foot | Loose nails, sharp metals or glass objects |
| Sprained or twisted ankles, fractured or broken bones because of slips, trips or falls | Slippery floors, littered walkways, incorrect footwear , poor lighting . |

How can foot injuries be prevented



There is no workplace where a worker is immune to foot injury

Foot injuries can be prevented by looking for measures through proper job design and / or workplace design and identifying proper foot wear



Structural features

- Modern design and bright colours
- Special shock-absorbing systems
- Non metallic composite toecap
- No metal parts
- Light and flexible
- Microfiber, knitted or crocheted fabrics
- Breathable and comfortable



Flat knitting : Seamless shoe uppers

Decorative finish
High degree of forming
Dyed yarn to give effects
Structure patterns
Comfort wear



Features



Outsole injected with double density PU, provides excellent abrasion and slip resistance

TPU shock absorber heel patch , softens the impact on the feet.

Features



Closure with plastic eyelets – eliminates rust problems that are quite often reported with conventional safety shoes.

Polyester knitted upper – effectively improves air permeability and comfort

Non metallic toe cap enables the delivery and outdoor team to walk through office security points

Testing parameters

| Testing | Parameters | Leather upper | S3 upper |
|---------------------------|---|---------------|----------|
| Tear strength | 60N (min)for Textile & 120N for Leather | 401N | 169.5N |
| Water vapour permeability | 0.8mg/cm ² .h (min) | 4.2 | 14.7 |
| Water vapour coefficient | 15mg/cm ² (min) | 47mg/cm | 120.3 |

Sizes of footwear

| EUR | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|------|----|
| USA | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 | 10.5 | 11 |
| UK | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |

Thank You!

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