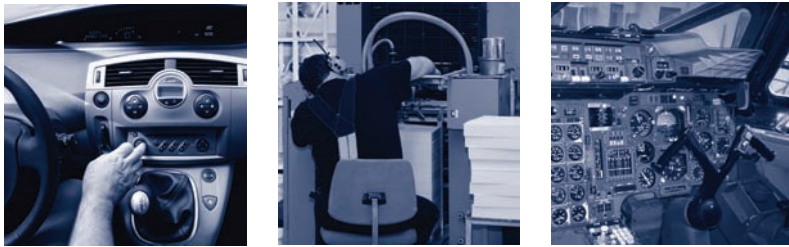


## Human Performance

The human factors and ergonomics discipline roots stem from engineering, psychology, physiology, and training, and serves a unique system design function. More than 60 years ago, military and industrial systems designers recognized that traditional approaches of selecting and training operators and maintenance personnel did not ensure acceptable or safe system performance. Consequently, a new body of knowledge and skills began to evolve focusing on human capabilities and limitations. Later this body of knowledge was extended to the application area of equipment and system design. Knowledge about human capabilities and limitations, and skill in applying it to system

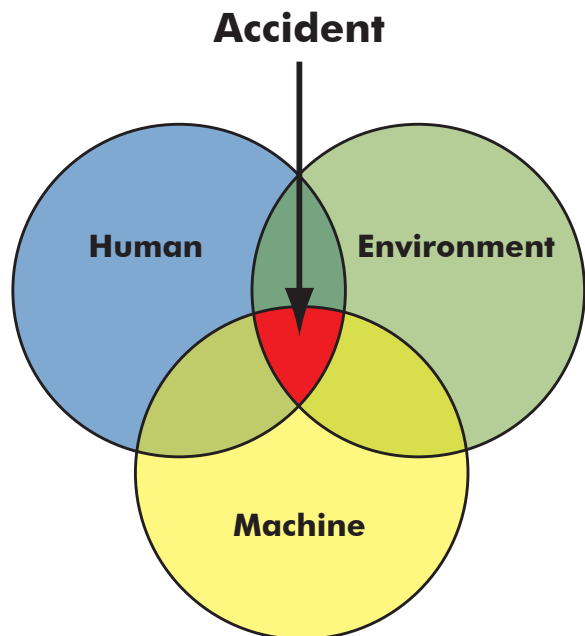
design, is the basis for the human factors and ergonomics profession. Human factors and ergonomics professionals serve to ensure that systems and equipment are designed to be compatible with known human capabilities and limitations.

Packer's engineers and scientists recognize the three critical dimensions involved in the safe and efficient design and use of products and machinery: the particular equipment or system involved, the environment in which the activity occurs, and the operator using it. All three of these elements interact to form the conditions under which actions are performed, products are used, and accidents occur. Packer Engineering's human performance experts focus their attention on the interaction among all three elements.



### Ergonomic evaluations of the relationship between people and their working environment

- How work affects people
- Human physiological response to physical demands
- Environmental stressors such as heat, noise, illumination, and task complexity
- Anatomical, and psychological aspects of workers in their working environments for optimizing health, safety, comfort and efficiency
- Musculoskeletal disorders such as carpal tunnel syndrome and back problems
- Application of administrative and engineering controls to minimize the risk of developing disorders
- Training in ergonomics and safety to mitigate or prevent future injuries



# Human Performance

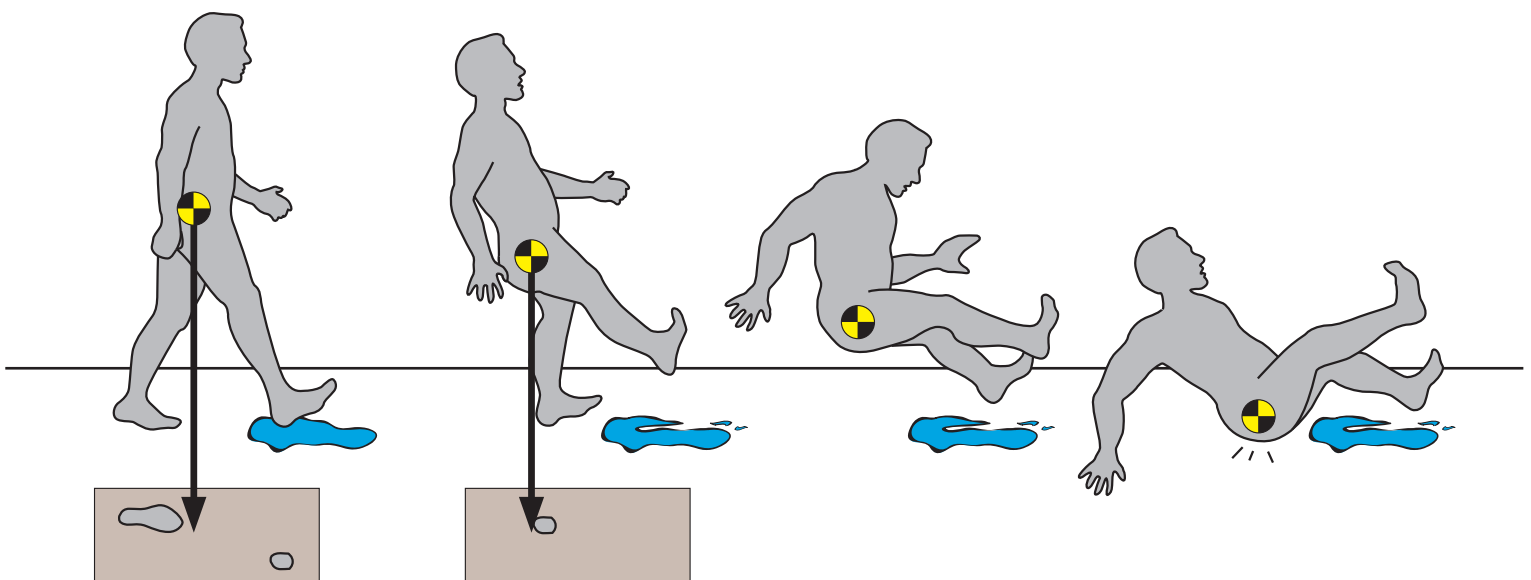
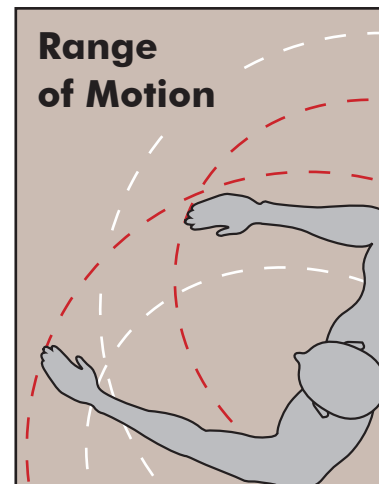
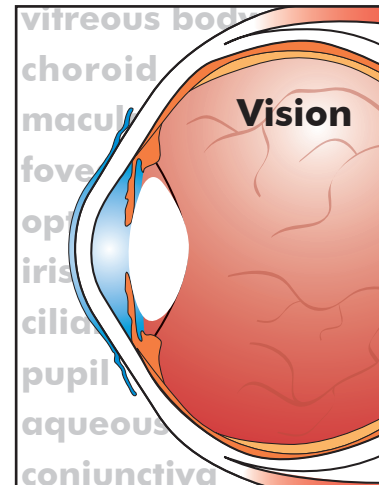
## Types of Projects

### Accident Investigation and Evaluations:

- Vision/visibility issues
- Perception/reaction/response issues
- Driver/operator performance/behavior
- Slip, trip and fall assessments
- Anthropometry and equipment accessibility issues
- Cognitive and sensory capabilities/limitations
- Warnings and instructions

### The Design Arena Includes:

- Product design, evaluation and redesign
- Product optimization
- Control/display design
- Operator workload evaluation
- Information interface design
- Product warnings and instructions
- Driver/operator performance capabilities/limitations
- Driver-vehicle interface design



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