

# Process Equipment Design

## 4.1 INTRODUCTION

People operate and maintain processes by interacting with process equipment. Process equipment includes displays, alarms, controls, computers, manual equipment, and personal protective equipment. Human factors issues for process equipment relate to how people interact with and use equipment. The characteristics of the equipment may increase the likelihood of human failures when it is used by people. These human factors issues are addressed by studying the match between the attributes of people and those of the equipment. Optimizing this match helps improve process safety.

Key attributes of people include:

- Physical capabilities such as strength, vision, hearing, and size.
- Intellectual capabilities such as understanding of the process, diagnosing problems, attention span, and speed of thought.
- Skills such as use of tools and reading level; knowledge such as that of process hazards and abnormal operations.
- Behavior such as responsibility and motivation.
- Education and training.
- Communication skills.

Key attributes of equipment include location, accessibility, size, shape, color, orientation, and so on. Process equipment designs should consider capabilities of people such as physical (e.g. strength), psychological (e.g. speed of processing information) and social (e.g. communication abilities).

The diversity of equipment used in processes, their characteristics, and those of people, result in a wide variety of human factors design issues. These are generally well-known. The challenge is to apply the existing knowledge and account for synergistic effects resulting from people and equipment functioning as parts of complex systems.

Fundamental human factors design principles can be defined for equipment and include:

- *Suitability*—meets requirements for the task.
- *Simplicity*—avoids unnecessary complexity.

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**Judd E. Hollander**



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