

Basic Mechanical Systems Training | Hands-On Skills + Virtual Simulator

Introduction to Levers - VB728-XB01AEN-E2

Objective 2: Describe Three Common Types of Mechanisms and Give an Application of Each

Three Basic Mechanisms

Even though mechanisms are very simple, they are an important part of modern industry. In almost any chosen career that works with or around machines, these machines are made of combinations of basic mechanisms. All basic mechanisms fall into one of three common types:

- Levers
- Wheels
- Inclined Planes

Move your mouse over each type of mechanism for more information.

This page is interactive. Click anywhere to hide the instructions.

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eLearning Course: NB728

Amatrol's Mechanical Systems 1 eLearning course with [virtual simulator](#) introduces mechanism concepts and their importance in industrial, commercial, and residential applications and features a virtual training system to replicate hands-on skills. It teaches the common types of mechanisms and gives applications of each type. Learners study an introduction to levers that covers force measurement, first-class levers, and second- and third- class levers. The mechanical training course then covers linkages, cams, and turnbuckles including friction and inclined plane concepts. Learners then focus on pulley systems and gear drives including fixed pulleys, movable pulleys, and combination pulleys. This course provides an overview of a broad range of basic concepts in mechanical systems.

Interactive eLearning with Learning Management System

Highly-Interactive Multimedia Format Appeals to All Learning Styles

Amatrol's basic mechanical systems eLearning course features interactive eLearning curriculum that integrates various types of learning methods to create an engaging, effective learning experience. Amatrol's multimedia [eLearning](#) curriculum includes text with voiceovers, videos, 3D animations, pictures, and interactive activities, quizzes, and self-reviews.

Free Learning Management System (LMS)

Amatrol eLearning is easy-to-use for both students and instructors. Its web-based interface is simple to navigate and available on any WebGL-compatible Internet browser. Instructors love Amatrol eLearning for its simple, yet sophisticated Learning Management System (LMS). The LMS allows instructors to create custom courses, monitor student participation, track course progress, assess knowledge levels prior to a course, and test knowledge levels after completion. Learners appreciate the fact that they can start and stop as needed, moving through each Amatrol course at their own pace. If a self-review reveals that they didn't understand a particular topic as well as they thought they did, they can revisit it before moving on.

Virtual Simulator

This eLearning course includes a virtual simulator!

Amatrol's basic mechanical systems eLearning course also features a virtual simulator that allows learners to practice hands-on skills even when they don't have access to a physical trainer. Virtual simulators replicate hands-on equipment in such great detail that learners will feel like they are using actual equipment. Learners perform essentially the same industry-based tasks using the virtual equipment that they would perform using equipment hardware. Virtual simulators offer instructors and learners great flexibility when learning remotely or when a physical trainer must be shared by multiple learners.

Additional Info



Requires:

- Computer (see [Computer Requirements](#))

Options:

- Mechanical Systems 1 Learning System ([96-MEC1](#))

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