

Mechanical Systems Level 2



Description

In DEPCO's Mechanical Systems Level 2 curriculum, students focus their attention on measuring devices and troubleshooting. Multiple gear types demonstrate the necessity of accuracy for functionality. Students use acquired knowledge to troubleshoot systems in order to ensure proper functionality.

Skills

- Focuses on the development of academic knowledge, employability skills, and technical skills. As students progress through the curriculum, the classroom instructor uses a detailed rubric to subjectively evaluate the student's skill and proficiency.

Objectives

- Demonstrate an understanding of the component data sheets.
- Demonstrate worm and bevel systems.
- Measure alignment using a vibration meter.
- Troubleshoot mechanical systems.
- Align a belt system.
- Incorporate a clutch into a mechanical system.

Activities

- Lesson 1 Safety Review
- Lesson 2 Level 1 Review
- Lesson 3 The History of Mechanical Systems
- Lesson 4 Torque and Data Sheets
- Lesson 5 Belt Alignment
- Lesson 6 Tools and Measuring Devices
- Lesson 7 DC Motors
- Lesson 8 Gearboxes
- Lesson 9 Bevel Gear
- Lesson 10 Worm Gear
- Lesson 11 Worm and Bevel System
- Lesson 12 Alignment Fundamentals
- Lesson 13 Vibration Meters
- Lesson 14 Bevel Gear Vibration
- Lesson 15 Worm Gear Vibration
- Lesson 16 Introduction to Clutches
- Lesson 17 Clutches
- Lesson 18 Troubleshooting I
- Lesson 19 Troubleshooting II
- Lesson 20 Challenge and Review

Standards

DEPCO courseware is developed from the Manufacturing Skill Standards Council (MSSC) and the National Skill Standards Board (NSSB). Close correlation with these standards will provide students with the skills and knowledge necessary for success in the workplace.

Module Includes:

Training Manuals, Instructor's Manual, Installation CD, DC Motor, Gear Boxes, Bevel Gears, Worm Gears, Vibration Meter, 12-inch Shaft, Gear Puller, Clutch, Belts, Laser Alignment System, 5 mm Hex Bit Socket, Socket Extension Bar, Headphones

Curriculum Specifications

Mechanical Systems Level 1 is the prerequisite.

À

À

©2020 DEPCO, LLC

Academic Representative



Technology Education Concepts
www.TECedu.com | 800-338-2238