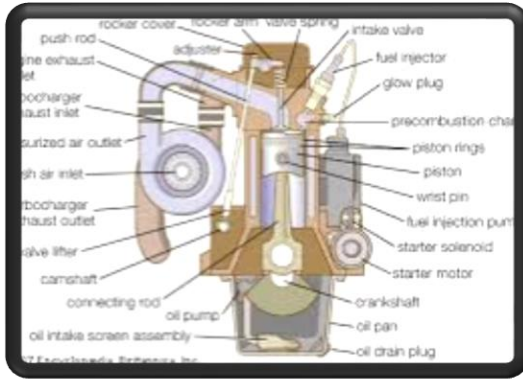


ROP Diesel Engine



COURSE DESCRIPTION

The ROP Diesel Engine course is designed to mix classroom instruction with hands-on training in the operation and repair of modern diesel engines. Students will learn how to interpret technical manuals and electronic diagnostic reports.

Earn College Credit

Students who pass the course with a final grade of "B" or higher may earn 4 college units from American River College.

Areas of Instruction:

Power Equipment Safety

- Mechanical Safety
- Shop Pollution Prevention
- Personal Protective Equipment
- Diesel Engine Maintenance
- Emission System Standards
- Air Filtration System
- Fuel, Lubricating and Cooling Systems

Battery Service

- Battery Basics
- Testing
- Warranty
- Safety and Installation
- Inventory Management

Diesel Engine Diagnosis

- Diagnose by System
- Case Studies

• Introduction to Kubota Engines

Electrical System Diagnosis and Repair

- Basic Electrical Components
- Basic Electrical Components
- Alternator and Dynamo Diagnosis and Repair
- Starter Diagnosis and Repair
- Electrical System Diagnosis

Engine Overhaul

- Preparation
- Inspection
- Post Overhaul Checks
- Disassembly/Reassembly

Failure and Analysis

- Methods
- Bearings/Rods/Shafts
- Engine Accessories
- Rings/Pistons
- Cylinder Heads/Valves

This Course is offered at Ponderosa High School
3661 Ponderosa Road, Shingle Springs, CA 95682

For more information, visit your High School Career Center or the Central Sierra Regional Occupational Program



El Dorado High School District
4675 Missouri Flat Road, Placerville, CA 95667

<http://www.eduhsd.k12.ca.us/Educational-Services/Career-Technical-EducationROP>



The El Dorado Union High School District does not discriminate on the basis of race, color, national origin, sex, or disability, or any other basis protected by law or regulation in its program or activities and provides equal access to the Boy Scouts of America and other designated youth groups. Lack of English language proficiency will not be a barrier to admission and participation in career and technical education programs.