

# El Dorado Union High School District

## Central Sierra Regional Occupational Program—El Dorado Section

### ***ROP Diesel Engine***

#### **Students will learn:**

##### ***Introduction to Kubota Engines***

##### **Power Equipment Safety**

- Mechanical Safety
- Shop Pollution Prevention
- Personal Protective Equipment

##### **Diesel Engine Maintenance**

- Emission System Standards
- Air Filtration System
- Fuel System
- Lubricating System
- Cooling System

##### **Battery Service**

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

##### **Electrical System Diagnosis and Repair**

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

##### **Diesel Engine Diagnosis**

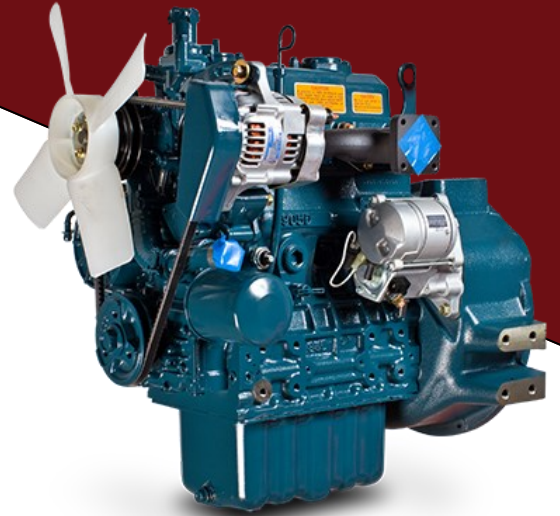
- Diagnose by System
- Case Studies

##### **Engine Overhaul**

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

##### **Failure and Analysis**

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



**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 a “B” or higher may receive 4 college units from American River College.

For more information visit your High School Counselor or contact the

Central Sierra Regional Occupational Program

4675 Missouri Flat Rd, Placerville CA 95667

530-622-5081 ext.7239

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

