



Combat Vehicle Simulator

After School Restoration Project

Background



Designed to train platoon leaders on how to direct their armor in combat situations. Much cheaper than using real tanks.



The Project

The Combat Vehicle Simulator that we have in our possession is Serial Number 2. It is the second Combat Vehicle simulator ever made. One of only 274 built.

I would like to unveil the restored Combat Vehicle Simulator at our annual Veterans Day Celebration. It will also be used in parades and on Memorial Day. I think the veterans will really appreciate it.

Veterans Day 2024



Start Date and How to Participate

When does it start? Wednesday December 6, 2023

Where will it be? Room I08

What time? Every Wednesday from 2:25-4:00

How to I qualify?

- **You must be passing all of your classes. (Throughout the length of the project)**
- **You must have good attendance.**
- **You must not have any discipline issues.**

You don't need any skills except the willingness to learn and work.

What Will the Students Do?

- **Tear down the machine**
- **Inventory parts that can be reused**
 - **Bag and label parts and keep an inventory of them**
- **Inventory parts that will need to be replaced**
 - **Bag and label parts to keep to compare with new parts to ensure that they will fit**
- **Order new parts**
 - **Look up new parts**
 - **Order new parts**
 - **Reconcile shipping receipt with new parts**
- **Clean and Paint parts that will be reused**
 - **Includes glass beading**
- **Clean and repair the body as needed**
 - **A new bottom will have to be fabricated out of two other bodies.**
 - **The top is in many pieces.**
 - **Students will learn how to weld plastic.**
- **Paint the body**
- **Fabricate new parts if/when necessary.**
- **Assemble machine**

Rockwell 400 Engine

- **Disassembly**
- **Inspect for wear**
- **Order new parts**
 - **This also includes interacting with the machine shop**
- **Engine assembly**
 - **Piston Rings**
 - **Cylinders**
 - **Heads**
 - **Set timing**
 - **Test run**



Borg/Warner T-20 Transmission

- **Disassembly**
- **Inspect for wear**
- **Order new parts**
 - **Seals**
 - **O-Rings**
 - **Send bands out for relining**
- **Reassembly**
- **Test**



What is the Deadline to Apply?

**You can apply by
filling using the
QR code.**

**The deadline is
3:00 pm, Monday,
November 20, 2023**

