



COLORADO STATE UNIVERSITY
EXTENSION

Small Engines

Project units 1-4 are designed for members 8-18 years old.



Unit 1 - Crank It Up!

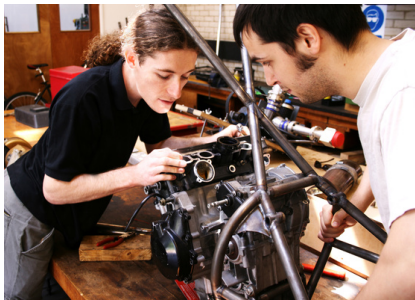
Inspiring youth to:

- Use operators manual to guide maintenance repair and adjustments
- Learn major parts of engines
- Importance of clean air to efficiently functioning engines
- How to replace a spark plug and much more

Unit 2 - Warm It Up!

Inspiring youth to:

- Learn about different engine types
- Learn the internal parts of an engine
- Specialize tools used
- Engine sizes
- Compression
- Seasoning your engine
- Safety Issues
- How to start your own business



Unit 3 - Tune It Up!

Inspiring youth to:

- Learn about tearing engines down and rebuilding them
- How to use diagnostic tools
- How to listen to engines for specific problems
- How to properly maintain engines
- How to use the internet to find resources, rules, and regulations regarding small engines
- Select replacement engines

Unit 4 - Advanced Small Engines

Inspiring youth to:

- Plan specific goals and a course of action for a specific topic
- Become a junior leader in small engine project
- Design your own small engines project

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Tips:

- Do at least seven activities each year.
- Date and have your leader or parent/guardian initial the completed activities.
- Take trips and tours
- Self-determine project ideas:
 - Select a topic of your choice and decide on a goal, such as putting a CD player in a car.
 - Record your goal and plan of action in the e-record. For example, it will take three months to learn how to install a CD player in a car.
 - Fill out the e-Record as you work on your project.
 - Record any costs incurred and any inventory of tools or equipment used.
 - Record your accomplishments in the e-record. Share what worked and what didn't.
 - Exhibit a display board related to your project.
 - Place additional supportive materials in a sturdy binder with your e-record.



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Resources:

- Exhibit & Judging Requirements
- Record Books
- Manual Information

Located at: Colorado4h.org