

2022

Career & Technical Education Resources

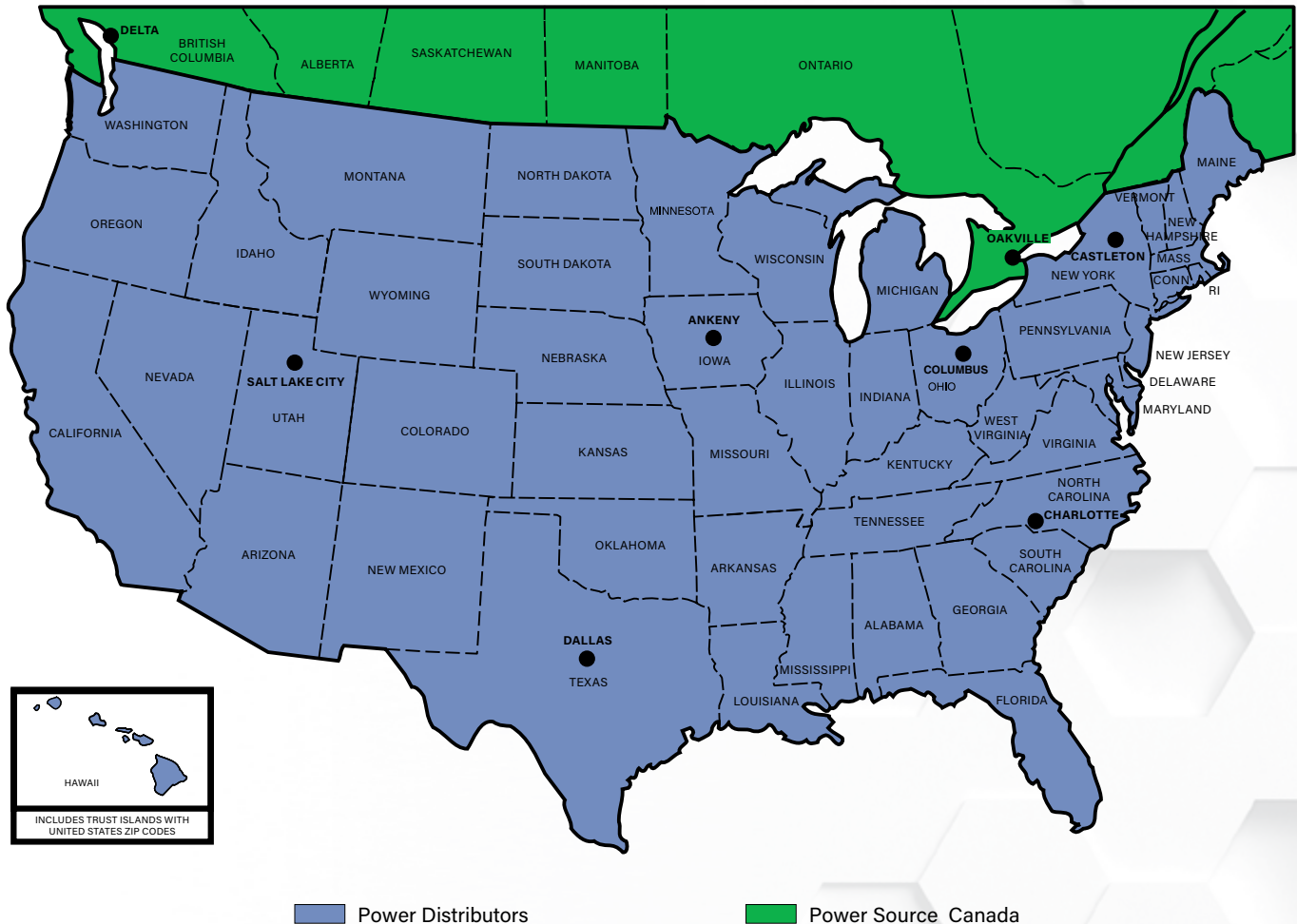


Time to get started.

- ▶ ENGINE TRAINING KITS
- ▶ COURSE OUTLINES
- ▶ INSTRUCTOR TRAINING
- ▶ TEXTBOOKS
- ▶ DIGITAL RESOURCES

YOU.POWERED.

Regional CTE Source of Supply Contact Info



POWER DISTRIBUTORS

Corporate Woods Industrial Park
810 SE Corporate Woods Dr.
Ankeny, IA 50021
Mike Blanc 800-554-3336 ext. 2332
michael.blanc@powerdistributors.com

20 Empire State Boulevard
Castleton, NY 12033
Mike Blanc 800-554-3336 ext. 2332
michael.blanc@powerdistributors.com

7800 Tuckaseegee Rd
Charlotte, NC 28214
Mike Blanc 800-554-3336 ext. 2332
michael.blanc@powerdistributors.com

POWER DISTRIBUTORS

3700 Paragon Drive
Columbus, OH 43228
Mike Blanc 800-554-3336 ext. 2332
michael.blanc@powerdistributors.com

10423 Sanden Drive
Dallas, TX 75238
Mike Blanc 800-554-3336 ext. 2332
michael.blanc@powerdistributors.com

346 N. John Glenn Rd.
Salt Lake City, UT 84116
Mike Blanc 800-554-3336 ext. 2332
michael.blanc@powerdistributors.com

POWER SOURCE CANADA

300-1628 Derwent Way
Delta, BC V3M 6R9
Mike Gulley 289-851-4975
mgulley@powersourcecanada.ca

8400 Parkhill Drive
Milton, ON L9T 5V7
Mike Gulley 289-851-4975
mgulley@powersourcecanada.ca

To obtain pricing and order Briggs & Stratton® engine kits, parts, tools and other training materials, refer to the map above and contact our Integrated Distributor (IDN) that handles your region. You may fax, mail or email orders to the IDNs using a purchase order or credit card. Be sure to include a tax-exempt ID number if applicable. The IDN will provide details on shipping fees if applicable and time frame for delivery.

Table of Contents

Introduction	4
Briggs & Stratton Educational Philosophy	4
Small Engine Industry Opportunities	5
ThePowerPortal.com	6
Engine Training Kits	7
Basic Training Starter Kit (Engine Donation Program)	8
CE9001A - OHV 950 Series™ Engine Training Kit - Advanced Level	9
CE9028A - OHV 950 Series Engine Upgrade Kit - Intermediate Level	11
CE9065 - OHV 725 Series™ Engine Training Kit - Entry Level	12
CE9040A - OHV 950 Series Engine Training Kit - Entry Level	13
CE9056 - Vanguard® V-Twin OHV Engine Kit - Advanced Level	14
Quick Reference Kit Guide	15
Teaching Aids	16
Books and Manuals	16-20
Digital Resources	20-25
CTE Instructor Training	26
Dates and Locations	26
Factory Schools	27
Course Package Amenities	28
Field Schools	30-37
Miscellaneous	38
Specialty Tools	38-41



Briggs & Stratton Educational Philosophy

Let us do the work for you!

Our training kits are specifically built for you to use in your classroom and lab. They are designed with an unparalleled level of educational material, aimed at reducing your time spent writing curriculum, creating presentations and lab sheets.

Benefits of using Briggs & Stratton® Training Kits in your classroom may include:

- Materials that are developed with you and the student in mind – our materials make complex issues easier to teach.
- Daily lesson plans will take you through the semester. These were created by working with veteran teachers with years of industry experience.
- Ready to use step-by-step tear down and assembly scripted lab procedures.
- PowerPoint presentation that follows the textbook.
- Engaging video and animations that help clarify difficult concepts and will excite your students' interest.
- Provided tool list takes the guesswork out and reduces your operating cost.
- Over 100 years of experience from the subject-matter experts who literally wrote the book(s) on small engines.
- Keep current with industry and government standards.

Curriculum relevancy becomes increasingly important as your program is being squeezed by inflation and budget cuts. Offering a program in small engines will help reinforce the core educational competencies, Science, Technology, Engineering and Mathematics (STEM) as they are applied in the real world.

Some examples include:

Science:

- How gasoline changes from a liquid to a vapor
- Electricity, electron flow, voltage, resistance, AC & DC current, electromagnetism

Chemistry:

- How gasoline provides heat energy

Physics:

- Linear and rotary motion
- Torque as a measurement of force

Mathematics:

- How to measure materials to within .001 inch
- Calculating displacement and compression ratios

Reading:

- How to use repair manuals

Technology:

- Online learning parts look-up (www.ThePowerPortal.com)



Whether you are a first-year instructor or a seasoned expert, Briggs & Stratton has just the right mix of what you need to increase the students' knowledge retention through a multi-media classroom/lab experience.

- Briggs & Stratton offers soundly structured courses, teaching Air-Cooled Engine Theory and Repair Techniques.
- Over 100,000 engines are already in schools for use in courses relating to Air-Cooled Engine Theory and Servicing.
- Our engine technology materials are used and recognized globally, preparing students for entry to the job market.
- The purpose of this catalog is to provide you with information on vocational education courses, teaching aids and training materials, as well as the newest technology available through Briggs & Stratton.

Small Engine Industry Opportunities

Education Required

Outdoor power equipment mechanics typically begin work with a high school diploma and learn on the job, although some of them seek postsecondary education. As engine technology advances and engine power equipment becomes more complex, the skill level of these service technicians also needs to increase. These demands affect future service technicians produced by vocational, trade schools and high schools. We believe that you, the instructor, along with Briggs & Stratton can meet this challenge.

Training Required

Trainees work closely with experienced mechanics while learning basic tasks, such as replacing spark plugs or disassembling engine components. As they gain experience, trainees move on to more difficult tasks, such as advanced computerized diagnosis and engine overhauls. Achieving competency may take anywhere from several months to 3 years, depending on a mechanic's specialization and ability.

Job Outlook

The projected percent change in employment from 2016 to 2026 is 6%.

Licenses/Certifications

Many motorboat and motorcycle manufacturers offer certification specific to their own models, and certification from the Equipment & Engine Training Council is the recognized industry credential for outdoor power equipment mechanics. Briggs & Stratton also offers its Master Service Technician program, which was designed for the above average service technician to be recognized to efficiently service any Briggs & Stratton product. It is intended to recognize only those industry professionals exhibiting superior skills in all phases of product service and maintenance. Although not required, certification can demonstrate a mechanic's competence and usually brings higher pay.

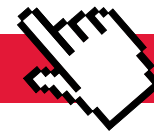
<https://www.raise.me/careers/installation-maintenance-and-repair/small-engine-mechanics>



No One Provides More Small Engine Training Resources

ThePowerPortal.com

Your "One Stop" Information Source



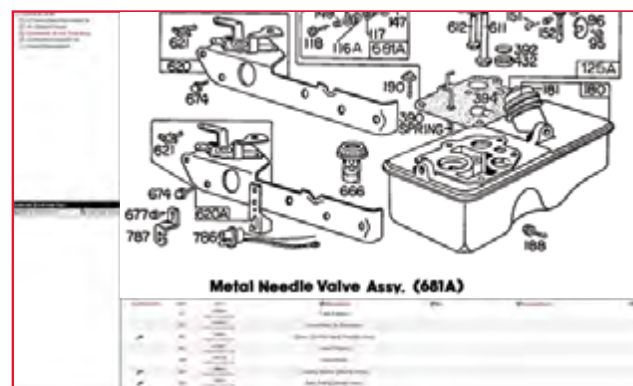
Briggs & Stratton has developed a powerful and flexible private web-based portal for its family of products, ThePowerPortal.com.

The screenshot shows the homepage of ThePowerPortal.com. At the top, there's a navigation bar with links for 'Site Map', 'Profile', and 'Contact Us'. Below this is a search bar and a 'Change Brand' section with buttons for various brands like Vanguard, Tech Channel, Ferris, Snapper, and others. The main content area is divided into four columns: 'EDUCATIONAL RESOURCES' (Complete training resource offerings for instructors), 'TECHNICAL INFORMATION' (Technical Information for the Briggs engine brand), 'MY RESOURCES & SELF HELP' (User specific applications, reports and Powerportal user information), and 'SALES & MARKETING' (Briggs & Stratton engine, sales & marketing materials and collateral). Below these is a 'APPLICATIONS' section with icons for 'Replace an Engine', 'Model Search', 'CGR App', 'eClaims', 'WISE', 'eParts', 'Reports', and 'Engine Repair Manuals'. A large banner for the '2022 Technical Update Seminar' is featured, stating it is now LIVE and available on-demand. To the right, there's a 'Documents Found: 4' section with 'NEW SERVICE BULLETINS' including DSB1140 (SERVICE BULLETIN - DEALER, INSTANT BATTERY STORAGE) and DSB1138 (SERVICE BULLETIN - DEALER, OIL PUMP LEAK ON 61E8 OIL GUARD™ ENGINE).

FEATURES

- Secure, on-demand, 24x7 access to meaningful information and functions for all of our products.
- Complete training resource offerings
- Engine donation program
- Classroom support materials/demos
- eParts - service parts and/or whole goods look-up
- Technical publications search - 1,000s of technical and service documents
- Continuing education for instructors
- Power Channel - video training and testing for students

E-PARTS LOOK-UP



If you have not already registered for an individual log-in ID, go to www.thepowerportal.com/register.htm or scan the 2D code with your smartphone.



Data rates may apply

Engine Training Kits

Briggs & Stratton is the world's largest manufacturer of small air-cooled engines and a leading producer of engine powered equipment like portable and stand-by generators and pressure washers. We are the leader in providing a diverse line of educational training kits to support your programs.

We have many different levels of kits to match your needs. Whether your program is brand new, and you need a starting package, or a seasoned school looking for more advanced material, Briggs & Stratton has the educational materials for you. (Kit contents subject to change without notice.)

Industry advice, ongoing technical support, discounted parts, and engine purchases are available through the Integrated Distributors Network in North America. Information such as parts look-up and service bulletins are available online at ThePowerPortal.com.

There are four levels of kits available, all reasonably priced with school budgets in mind:

- **BASIC TRAINING STARTER KIT**
Provided at no charge by Briggs & Stratton to qualified accounts. Includes one engine and choice of 2 additional training items.
See details on page 7.
- **ENTRY LEVEL KITS**
Contains two engines, textbooks, workbooks, basic tools and instructor's materials.
- **INTERMEDIATE LEVEL KITS**
Provide additional resources to supplement the Entry Level Kits or existing programs.
- **ADVANCED LEVEL KITS**
Contain engines, support materials and/or equipment for providing a complete in-depth program.

CE9028A - OHV 950 Series™ Engine Upgrade Kit (pg. 11)



CE9065 - OHV 725 Series™ Engine Training Kit (pg. 12)



Basic Training Starter Kit - North America Only

Once per year an instructor may apply for and receive a Basic Training Starter Kit supplied by Briggs & Stratton at no cost to their qualifying school program. This kit is Briggs & Stratton's traditional Engine Donation Program.

To qualify, a school must meet all of the following requirements:

1. Have an on-going course in air-cooled gasoline engine theory and/or repair. This course may be either stand-alone or part of a broader curriculum in which air-cooled gasoline engine operation and servicing is a major component.
2. Agree that the no-charge materials supplied by Briggs & Stratton are the exclusive property of the school and are not to be considered as "belonging" to any individual instructor.
3. If the small engine training class is discontinued, the donated items are to be given to another school for the use of education.
4. Welcome any visitation by a Briggs & Stratton representative wishing to review the use of this material.
5. Complete and submit form provided on The Power Portal site along with a course outline.

Briggs & Stratton's Contribution

If the above criteria are met, you will receive from Briggs & Stratton:

- One (1) engine of Briggs & Stratton's choice.
- Two (2) items selected from the list below:
 - 19638** – 4-Blade Feeler Gauge Set
 - 795161** – Alcohol Tester
 - 84003327** – Ignition Tester
 - CE5121** – Air Gap Gauge/Ruler
 - Repair Manual** – 1 per engine donated if available for the engine model sent (specs/manual can also be found on the Power Portal > Briggs & Stratton > Technical Information)
 - AM3006** - You.Powered. Banner



Engine model is subject to availability and may differ from what is shown in the photo.

+
any 2:



19638
4-Blade Feeler Gauge Set



795161
Alcohol Tester



84003327
Ignition Tester



CE5121 – Ruler/Air Gap Gauge



Repair Manual
(1 per engine donated)



AM3006 – You.Powered. Banner

Annual Renewal Process

Once each year a school may re-apply for the same basic donation package. Renewal is not automatic. The instructor or school administrator must re-submit the required online application/agreement form.

How to Apply for Kit

Complete and submit the engine donation application and release of liability form online. Remember to upload a course outline.

Go to: ThePowerPortal.com - See Educational Resources > Educational Materials for Donation

NOTE: Items will be shipped freight prepaid; however, some fees may apply to orders shipped outside the continental United States. Please allow 6 to 8 weeks for delivery.

CE9001A - OHV 950 Series™ Engine Training Kit (10 Engines)

ADVANCED LEVEL KIT – Complete Curriculum for 20 students.



This complete course curriculum is refined from the Briggs & Stratton Authorized Field Service School, widely acclaimed as the best small engine training school in the industry. Developed from years of training experience and built around a textbook written by the Briggs & Stratton Customer Education Department, you are assured a thorough, in-depth study of Briggs & Stratton engines. Included with the purchase of this kit is free registration at one of Briggs & Stratton's Factory Schools that are held in Milwaukee, WI (includes lodging, but not travel expenses)*. Once trained with curriculum in place, the instructor will be able to provide a comprehensive and accurate small gasoline engine program for the students.

Included with this package is an online Instructor Reference Guide with lesson plans and lab procedures specific to this engine. It contains video and PowerPoint presentations, outlines for the instructor to develop competence, and two methods for teaching the course curriculum.

New instructors will benefit from having a complete day-to-day lesson plan. For more advanced classes it is relatively simple to construct a custom made program based on your needs from the textbook table of contents or your experiences at the instructor training session.

The combination of textbooks, student workbooks, repair manuals and audio/visual training aids allows tremendous flexibility in how to teach various subjects. The extensively illustrated textbook is the "why", the repair manuals the "how" and the workbooks containing the student labs are the "reinforcement."

**See pages 26-37 for school dates, locations and an application.*

NEW ADDITION (\$360.00 Value)

Small Engines Online Instructor Resources

ATP's *Small Engines* Online Instructor Resources provide access to detailed instructional plans (lesson plans), Premium PowerPoint presentations, an image library of all the illustrations in the textbook, assessments (test banks), and answer keys, plus other useful tools to aid instruction and enhance learning.

Go to www.atplearning.com/product/1070/small-engines-instructor-resources-ir-complete-online-package to learn more about this newly added item to the CE9001A OHV Engine Training Kit.



For prices and ordering, see the inside front cover for your regional source of supply contact.

CE9001A - OHV 950 Series™ Engine Training Kit Parts List

ITEM	DESCRIPTION	PART #	QTY
Engines	OHV 950 Series™ Horizontal Engine	130G32-0022-F1	10
Support Parts	Engine Gasket Set	594951	10
Support Parts	Crankcase Cover Gasket	590608	30
Support Parts	Head Gasket	591445	30
Support Parts	Ring Set	592957	4
Support Parts	Flywheel Key	797286	20
Repair Manual	OHV 950 Series Repair Manual	381573EN	20
Textbook	<i>Small Engines</i> Textbook	CE8020	20
Workbook	<i>Small Engines</i> Workbook	CE8021	20
Workbook Answer Key	<i>Small Engines</i> Workbook Answer Key	CE8022	1
Specialty Tool	Ruler/Air Gap Gauge	CE5121	12
Specialty Tool	Ring Expander	19340	2
Specialty Tool	Multimeter	19602	2
Specialty Tool	DC Amp Shunt	19468	2
Specialty Tool	Alcohol Tester	795161	5
Specialty Tool	Basic Tool Kit	19300	5
Digital Resources	Instructor Reference Guide and Support Materials	Available on The Power Portal - Briggs & Stratton > Educational Resources > Instructor Materials for Download	
Digital Resources	<i>Small Engines</i> Online Instructor Resources	Access Card will be mailed to instructor directly	
Training	Instructor Course included with CE9001A Kit purchase (factory school only)	—	1

NOTES:

- **Red Bold** items are considered “consumable” and will need to be replenished on a regular basis. These engines are now equipped with metric fasteners.
- Model 130G32 Engine two-jaw flywheel puller (automotive-style, 8-inch or larger) NOT INCLUDED in kit. Must be purchased separately.
- Correctly tightening fasteners to an equipment manufacturer's torque specifications ensures parts are properly secured without being damaged. We suggest a click-style torque wrench (30-250 in./lb.) which must be purchased separately through and online outlet, auto parts, hardware or home improvements store.

CE9028A - OHV 950 Series™ Engine Upgrade Kit (10 Engines)

INTERMEDIATE LEVEL KIT - An excellent way for schools with established air-cooled engine programs to upgrade to more modern components.



CE9028A is one of our most popular kits similar to the larger CE9001A kit, but without some of the specialty tools and repair manuals:

- Perfect for schools with an existing small engine program
- Helps schools stay up-to-date with current technology
- Online Instructor Reference Guide with lesson plans and lab procedures specific to this engine



ITEM	DESCRIPTION	PART #	QTY
Engines	OHV 950 Series™ Horizontal Engine	130G32-0022-F1	10
Support Parts	Engine Gasket Set	594951	10
Support Parts	Crankcase Cover Gasket	590608	10
Support Parts	Flywheel Key	797286	10
Specialty Tool	Flywheel Strap Wrench	19433	3
Specialty Tool	Ring Expander	19340	3
Specialty Tool	Piston Ring Compressor	19070	3
Repair Manual	OHV 950 Series Repair Manual	381573EN	10
Digital Resources	Instructor Reference Guide and Support Materials	Available on The Power Portal - Briggs & Stratton > Educational Resources > Instructor Materials for Download	

NOTES:

- **Red Bold** items are considered “consumable” and will need to be replenished on a regular basis. These engines are now equipped with metric fasteners.
- Model 130G32 Engine two-jaw flywheel puller (automotive-style, 8-inch or larger) NOT INCLUDED in kit. Must be purchased separately.
- Correctly tightening fasteners to an equipment manufacturer's torque specifications ensures parts are properly secured without being damaged. We suggest a click-style torque wrench (30-250 in./lb.) which must be purchased separately through and online outlet, auto parts, hardware or home improvements store.

For prices and ordering, see the inside front cover for your regional source of supply contact.

CE9065 - OHV 725 Series™ Engine Training Kit (2 Engines)

ENTRY LEVEL KIT - One of the most widely used engines for walk-behind lawn mower applications.



CE9065 is designed for schools needing a basic entry-level kit:

- Intended for smaller class sizes
- Get hands-on experience with vertical shaft lawn mower engines
- Textbook and workbook to help instructors enhance students' learning experience as well as online Instructor Reference Guide with lesson plans and lab procedures specific to this engine



ITEM	DESCRIPTION	PART #	QTY
Engines	OHV 725 Series™ Vertical Engine	104M02-0197-F1	2
Repair Manual	OHV 725 Series Repair Manual	80029329EN	4
Textbook	<i>Small Engines</i> Textbook	CE8020	4
Workbook	<i>Small Engines</i> Workbook	CE8021	4
Answer Key	<i>Small Engines</i> Workbook Answer Key	CE8022	1
Specialty Tools	Basic Tool Kit	19300	1
Digital Resources	Instructor Reference Guide and Support Materials	Available on The Power Portal - Briggs & Stratton > Educational Resources > Instructor Materials for Download	

For prices and ordering, see the inside front cover for your regional source of supply contact.

CE9040A - OHV 950 Series™ Engine Training Kit (2 Engines)

ENTRY LEVEL KIT - Used in generator, pressure washer, rototiller and other applications.



CE9040A is also designed for schools needing a basic entry-level kit:

- Intended for smaller class sizes
- Get hands-on experience with horizontal shaft, overhead valve engines
- Textbook and workbook to help instructors enhance students' learning experience as well as Online Instructor Reference Guide with lesson plans and lab procedures specific to this engine



ITEM	DESCRIPTION	PART #	QTY
Engines	OHV 950 Series™ Horizontal Engine	130G32-0022-F1	2
Repair Manual	OHV 950 Series Repair Manual	381573EN	4
Textbook	<i>Small Engines</i> Textbook	CE8020	4
Workbook	<i>Small Engines</i> Workbook	CE8021	4
Workbook Answer Key	<i>Small Engines</i> Workbook Answer Key	CE8022	1
Specialty Tools	Basic Tool Kit	19300	1
Digital Resources	Instructor Reference Guide and Support Materials	Available on The Power Portal - Briggs & Stratton > Educational Resources > Instructor Materials for Download	

NOTES:

- Model 130G32 Engine two-jaw flywheel puller (automotive-style, 8-inch or larger) NOT INCLUDED in kit. Must be purchased separately.
- Correctly tightening fasteners to an equipment manufacturer's torque specifications ensures parts are properly secured without being damaged. We suggest a click-style torque wrench (30-250 in./lb.) which must be purchased separately through and online outlet, auto parts, hardware or home improvements store.

For prices and ordering, see the inside front cover for your regional source of supply contact.

CE9056 - Vanguard® V-Twin OHV Engine Kit (2 Engines)

ADVANCED LEVEL KIT - Will give you the opportunity to elevate your classroom to an advanced level. It will give your students the chance to discover the working mechanisms of multi-cylinder engines. In addition, they will have the opportunity to understand the refinement of the Vanguard brand.



CE9056 is designed to take the more advanced learners to the next level. The V-Twin Engine Kit can give your students a new appreciation of the larger and more powerful engine designs. Get hands-on experience with twin cylinders, pressurized lubrication, electric start and alternators. This kit includes gasket sets, repair manuals and an online Instructor Reference Guide with lesson plans and lab procedures specific to this engine:

- PowerPoint engine disassembly and reassembly
- V-Twin teardown script
- V-Twin Model 305447 class outline
- Illustrated Parts List for Model 305447
- Required tool list
- How to look up parts and Operator Manuals
- Oil and fuel recommendations
- And more

ITEM	DESCRIPTION	PART #	QTY
Engines	Vanguard® V-Twin OHV Horizontal Engine	305447-0615-F1	2
Support Parts	Gasket Set	808704	4
Repair Manual	Vanguard V-Twin OHV Repair Manual	272144	4
Digital Resources	Instructor Reference Guide and Support Materials	Available on The Power Portal - Briggs & Stratton > Educational Resources > Instructor Materials for Download	

NOTES:

Red Bold items are considered "consumable" and will need to be replenished on a regular basis. These engines are now equipped with metric fasteners.

For prices and ordering, see the inside front cover for your regional source of supply contact.

Quick Reference Kit Guide

ITEM	DESCRIPTION	PART NO.	CE9001A	CE9028A	CE9040A	CE9056	CE9065
Engines	OHV 725 Series™ Vertical Engine	104M02-0197-F1					2
Engines	Vanguard® V-Twin OHV Horizontal Engine	305447-0615-F1				2	
Engines	OHV 950 Series™ Horizontal Engine	130G32-0022-F1	10	10	2		
Support Parts	Engine Gasket Set	594951	10	10			
Support Parts	Crankcase Cover Gasket	590608	30	10			
Support Parts	Head Gasket	591445	30				
Support Parts	Ring Set	592957	4				
Support Parts	Flywheel Key	797286	20	10			
Support Parts	Gasket Set	808704				1	
Repair Manual	Vanguard V-Twin OHV Repair Manual	272144				4	
Repair Manual	OHV 950 Series Repair Manual	381573EN	20	10	4		
Repair Manual	OHV 725 Series Repair Manual	80029329EN					4
Textbook	<i>Small Engines</i> Textbook	CE8020	20		4		4
Workbook	<i>Small Engines</i> Workbook	CE8021	20		4		4
Workbook Answers	<i>Small Engines</i> Workbook Answer Key	CE8022	1		1		1
Specialty Tool	Basic Tool Kit (see pg. 37 for complete contents)	19300	5		1		1
Specialty Tool	Ruler/Air Gap Gauge	CE5121	12				
Specialty Tool	Ring Compressor	19070		3			
Specialty Tool	Ring Expander	19340	2	3			
Specialty Tool	Flywheel Strap Wrench	19433		3			
Specialty Tool	DC Amp Shunt	19468	2				
Specialty Tool	Multimeter	19602	2				
Specialty Tool	Alcohol Tester	795161	5				
Digital Resources	<i>Small Engines</i> Online Instructor Resources	Access Card will be mailed to instructor directly	1				
Digital Resources	Instructor Reference Guide and Support Materials	Available on The Power Portal - Briggs & Stratton > Educational Resources > Instructor Materials for Download	1	1	1	1	1
Training	Instructor Course included with CE9001A Kit purchase (factory school only)	—	1				

For prices and ordering, see the inside front cover for your regional source of supply contact.

Teaching Aids - Books & Manuals

CE8020 - *Small Engines* Textbook

CE8021 - *Small Engines* Workbook

CE8022 - *Small Engines* Workbook Answer Key

**4TH
EDITION!**



Small Engines provides the basis for a complete small engine technician training program. It is designed for technicians in the small engines industry, for those preparing for the Master Service Technician Exam, and for students in power technology, outdoor power equipment, automotive, and engineering programs. This fourth edition includes objectives and review sections for each chapter as well as updated and expanded coverage of electronic fuel injection (EFI), lithium-ion (Li-ion) batteries, and quiet power technology (QPT).

Fundamental small engine operation principles are presented using concise text, detailed illustrations, and photographs. The principles of small engine operation are presented, including compression, fuel, governor, electrical, cooling, and lubrication systems. Troubleshooting methods and failure analysis techniques are presented and reinforced with common industry applications. Information on engine selection offers an overview of pertinent engine selection factors.

Small Engines is supported by a Student Workbook containing review questions on three different levels addressing the skills and acquired knowledge of beginners, intermediate students and those with advanced capabilities.

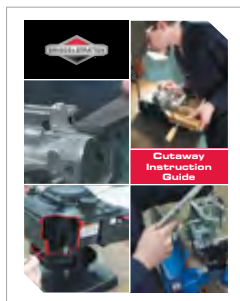
The *Small Engines* Workbook Answer Key contains the answers to the lessons provided in the Student Workbook.

CE8069 - Repair Manual 1919-1981 (Antique Repair Manual)



This manual covers all out-of-production Briggs & Stratton Single Cylinder engines built in years 1919-1981. From the original model "A" to model series used in 1981, this book has the specifications, diagrams and instructions necessary to restore your "antique" engine to good-as-new condition.

CE8147 - Cutaway Instruction Guide



This 88-page book is designed to give any individual looking for basic guidance in making a training prop. The content is limited to a basic approach and requires a clear understanding of hand tools and power tools in a safe and responsible fashion. Your imagination is the only thing that will limit what you can accomplish.

For prices and ordering, see the inside front cover for your regional source of supply contact.

CE8155 - Small Engine and Equipment Maintenance



Small Engine and Equipment Maintenance is a comprehensive compilation of small engines and the maintenance practices that are required to maintain the efficiencies and durability of residential and commercial power equipment. The materials have been designed to support an entry-level small engines program and a small engines owner looking to prolong their power equipment investment.

Quick response code technology is incorporated throughout that references easy-to-understand procedures and identifies critical operation components. The learner will reference this well after they leave the classroom.

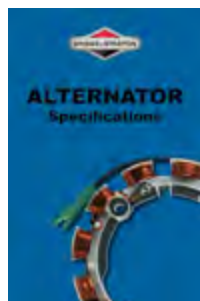


CE8186 - Engine Failure Analysis Reference Guide



This 58-page book details the five most common causes of engine failures. A thorough discussion of the "how and why" of each failure along with supporting diagrams and photographs assist the technician in determining engine failures.

MS2288BK - Alternator Specifications



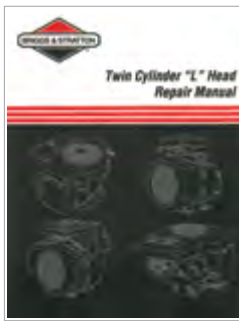
These ring-bound cards supply information on the different alternator systems provided by Briggs & Stratton. An "Introduction" and "How To Use" page is included.

270962 - Single Cylinder L-Head Repair Manual



For most single cylinder L-Head engines built after 1981. Shop manual contains common specifications and detailed, easy-to-follow instructions on how to adjust, tune up and repair. This 350-page manual is used by Authorized Briggs & Stratton Service Centers.

271172 - Twin Cylinder L-Head



For most twin cylinder L-Head engines built after 1981. Manual contains common specifications and detailed, easy-to-follow instructions on how to adjust, tune up and repair. This manual is used by Authorized Briggs & Stratton Service Centers.

272144 - Twin Cylinder OHV Vanguard®



For Vanguard® V-Twin OHV engines built after 1981. This 190-page manual is dedicated to Vanguard engines. It is used by Authorized Briggs & Stratton Service Centers. It contains specifications and detailed instructions on how to repair and adjust these types of engines.

272147 - Single Cylinder OHV Vanguard



For most single cylinder OHV Vanguard engines built after 1981. This 280-page manual is now dedicated to Vanguard engines and is used by Authorized Briggs & Stratton Service Centers. It contains specifications and detailed instructions on how to repair and adjust these types of engines.

For other OHV Single Cylinder Engines use Repair Manual 276781.

273521 - Intek™ V-Twin Cylinder OHV Repair Manual



Repair manual for Intek™ V-Twin overhead valve (OHV) engines. Model series 405700, 406700, 40F700, 40G700, 40H700, 445700 and 446700.

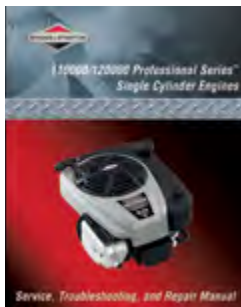
276781 - Single Cylinder OHV Repair Manual



For most single cylinder OHV engines built after 1981. This manual is used by Authorized Briggs & Stratton Service Centers. It contains specifications and detailed instructions on how to repair and adjust this type of engine.

For Vanguard® Single-Cylinder Engines use Repair Manual 272147.

279000 - Single Cylinder OHV Professional Series™ Repair Manual



For single cylinder vertical crankshaft Professional Series™ OHV engines built after 1981. This manual is used by Authorized Briggs & Stratton Service Centers. It contains specifications and detailed instructions on how to repair and adjust this type of engine.

381569EN - Model 83100 Repair Manual



Repair manual for model series 83100 550 Series™ Single Cylinder OHV Air-Cooled Engines.

381570EN - Model 10 OHV Repair Manual



Repair manual for model series 106200, 10R200, 10U200 Single Cylinder OHV Air-Cooled Engines.

381573EN - Model 130G00 OHV Repair Manual



Repair manual for model series 130G00, 131G00, 13R200, 13U100, 13U200 Single Cylinder OHV Air-Cooled Engines.

80029329EN - Model 104M00 OHV Repair Manual



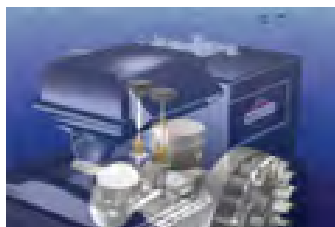
Repair manual for model series 130M00, 104M00 Single Cylinder OHV Air-Cooled Engines.

Teaching Aids - Digital Resources

Theory Programs

While most of these video programs have been developed for service dealers, these programs can also serve the needs of vo-ed students. All are available at no charge on The Power Portal - Briggs & Stratton > Educational Resource > Instructor Support Materials.

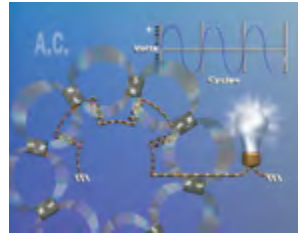
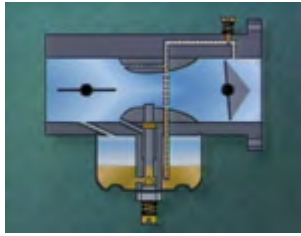
CE3070 - 4-Stroke Theory and Operation



Instructors can use this 10-minute video to build the basis for students to understand how a small engine works. In this video these items are detailed: 4-Stroke Theory and Operation, Engine Designs, Engine Configurations, Flywheel Function and Camshaft Function.

For prices and ordering, see the inside front cover for your regional source of supply contact.

CE3013 - Theories of Operation - Volume 1



This is a series of four distinct programs (64 minutes total). These selections cover four basic topics which are vital to understanding the operation of a 4-cycle engine.

1. Carburetor Theory
2. Valve Theory and Repair Procedures
3. Governor Theory and Troubleshooting
4. Electrical System (Alternator Theory)

CE3029 - Theories of Operation - Volume 2



This serves as a companion video (25+ minutes) to Theories of Operation - Volume 1. It contains the following advanced topics:

1. Horsepower and Torque: explains torque as a rotational force and horsepower as a calculation of work performed.
2. Advanced Carburetion Theory: a brief review of theory and basic carburetor physics followed by state-of-the-art computer animated graphics.

CE3097 - Water Pump & Pressure Washer Theory & Troubleshooting



This 42 minute video is an excellent presentation on the operational theory of water pumps and pressure washers. Various principles of physics, liquids, and creating pressure differentials are explained in making this equipment work. 3-D and animation graphics clearly document the coordination of all the operating systems. The principles of operation and basic equipment troubleshooting is covered. Maintenance and parts nomenclature are also included.

For prices and ordering, see the inside front cover for your regional source of supply contact.

Maintenance & Troubleshooting Programs

CE3101 - Electrical Testing - Voltage Drops with Extra Video, Increasing Profit at Your Dealership



Learn how to pinpoint a problem in an electrical circuit by using voltage drop testing. Quickly show where a circuit has resistance (defective components, corrosion, etc.) not allowing it to perform properly.

The goal of any servicing dealer is to make a profit by taking care of customers. This video looks at measuring several key variables such as selling, shop time, technician output and margin targets.

CE3113 - Dynamics of Engine Failure



This video (55 minutes) sets the scene with various scenarios of different engine failures. The failures covered are abrasive ingestion, insufficient lubrication, over heating and breakage. The video can be used as a stand-alone presentation on engine failures.

It also includes an additional PowerPoint presentation on the five common causes of engine failures, all supported by embedded video segments. The failures include abrasive ingestion, insufficient lubrication, over heating, over speeding and breakage. You will be able to show the evidence of the failure and explain how and why it happened.

Also enclosed is a PDF version of our Major Engine Failure Analysis book (CE8034). This book serves as a printed resource for the students to follow using the above presentations.



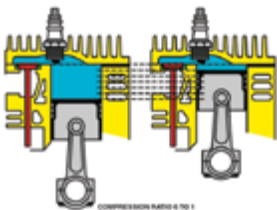
This contains is a series of videos explaining different diagnostic approaches.

- **Quick Check Diagnostics**, (10 minutes) - A troubleshooting video using a procedure based upon an interview process with a customer. This procedure enables a technician to quickly look at a piece of equipment to help determine what is wrong.
- **Compression Diagnostics**, (38 minutes) - This video enables the student to truly understand 4-cycle theory and the components behind it. Time will also be devoted to performing a 3-angle valve job which enhances engine performance.
- **Quick Flow Diagnostics**, (15 minutes) - After initially troubleshooting a piece of equipment when it comes in, which technician should work on it? This video helps to develop a process on how to quickly and effectively get the piece of equipment through the shop.
- **Carburetion Diagnostics**, (18 minutes) - Why doesn't the engine start? Or, why does the engine run poorly? This video looks at all of the functions of the carburetor and gives the student a clear understanding of symptoms and what causes them.

All of the above videos are supported with a printable PDF booklet.

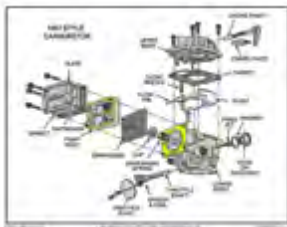
PowerPoint Training Materials

CE3017 - Basic Engine Systems



Contains 86 slides of 4-Cycle and 2-Cycle theory – L-Head, Overhead Valve (OHV), Direct Overhead Valve (DOV) engine designs, governors, compression ratio, compression release systems, rings, cubic inch displacement, lubrication systems and counter balancing systems.

CE3056 - Fuel Delivery Systems



Contains 107 slides of basic carburetion systems diagramming common Briggs & Stratton carburetors and fuel pump circuits.

Instructor's Reference Guides

CONTAINS
DAILY LESSON
PLANS AND LAB
PROCEDURES

CE3093 - L-Head Vertical Engine Instructor's Reference



Includes detailed step-by-step teardown script for the popular Briggs & Stratton 625-725 Series™ vertical crankshaft engine, PowerPoint slides, course outline and photo library to create customized slides.

CE3094 - Overhead Valve (OHV) Engine Instructor's Reference



Includes a detailed step-by-step teardown script for the Model 12 OHV 900 Series™ horizontal crankshaft engine, PowerPoint slides, course outline and photo library to create customized slides.

CE3095 - Portable Generator Instructor's Reference



Includes electrical theory, detailed step-by-step teardown scripts for Briggs & Stratton 3500 watt and 4000 watt generators, generator and engine PowerPoint slides, test equipment usage, course outline and photo library to create customized slides.

CE3125 - V-Twin Engine Instructor's Reference



Includes detailed step-by-step teardown script for the popular Briggs & Stratton Vanguard® V-Twin OHV engine, PowerPoint slides, course outline and photo library to create customized slides.

CE3129 - L-Head Horizontal Engine Instructor's Reference



Includes detailed step-by-step teardown script for the Briggs & Stratton Model 9/400 Series™ horizontal crankshaft engine. PowerPoint slides, course outline, and photo library to create customized slides.

CE3137 - OHV 950 Series™ Engine Instructor's Reference



The contents of this guide will provide instructors with basic techniques needed to teach small engine technology. There are two methods for teaching the course curriculum. The first, developed by a high school teacher with over 30 years of experience, utilizes a complete lesson plan for an 8-9 week class taught at the appropriate level.

The second method can utilize the additional information provided, which will be helpful for a class that is giving an overview of small engines versus a full semester class.

Includes detailed step-by-step teardown script for the new Model 130G00 OHV 950 Series™ horizontal shaft engine.

CE3140 - 725 Series™ OHV Vertical Shaft Engine Instructor's Reference



Includes scripted engine teardown and PowerPoint of teardown. Parts list, tool list, 4-cycle theory video, literature and more.

This should be paired with CE3137 OHV 950 Series Engine Instructor's Reference Guide for the complete curriculum.

Briggs & Stratton Summer Schools for Educators

FACTORY SCHOOL (4 day)	June 20-23, 2022	Beginner	Briggs & Stratton Training Center Menomonee Falls, WI
FACTORY SCHOOL (4 day)	July 18-21, 2022	Beginner	Briggs & Stratton Training Center Menomonee Falls, WI
FIELD SCHOOL (3 day)	June 7-9, 2022	Beginner	West Virginia University Morgantown, WI
FIELD SCHOOL (3 day)	June 14-16, 2022	Beginner	Sam Houston State University Huntsville, TX
FIELD SCHOOL (3 day)	June 21-23, 2022	Beginner	Prarie View High School Lacygne, KS
FIELD SCHOOL (3 day)	July 12-14, 2022	Beginner	Utah State University Logan, UT
FIELD SCHOOL (3 day)	July 12-14, 2022	Beginner	EETC Training Center Kings Mountain, NC
FIELD SCHOOL (3 day)	July 19-21, 2022	Beginner	EETC Training Center Kings Mountain, NC
FIELD SCHOOL (3 day)	July 19-21, 2022	Beginner	Southern Arkansas University Magnolia, AR
FIELD SCHOOL (3 day)	July 27-29, 2022	Beginner	South Dakota State University, Brookings, SD

See following pages for more details



CTE Instructor Factory Service Training

Briggs & Stratton conducts Factory Service Training for CTE Instructors. These schools not only cover the operation and theory behind Briggs & Stratton air-cooled engines, but also offer specific insights in developing teaching aids such as carburetor cut-a-ways, and other ideas.

BEGINNER CTE INSTRUCTOR SCHOOL

Scheduled Dates: June 20-23 and July 18-21 2022

If you are an instructor who is relatively new teaching small engine technology, then this is where you will want to start.

By attending this course you will have received enough knowledge and confidence to be able to conduct your own basic small engine class. This program will follow lesson plans designed for high schools that can be found on our Overhead Valve (OHV) Engine Instructor's Reference CD. It is intended to walk you through each of the same steps you would use in your classroom and lab. You will perform a complete teardown on a horizontal shaft OHV engine. In addition, you will receive an assortment of training materials on a digital format USB and through a special education section on The Power Portal website so you will be able to teach the same concepts and procedures in your own classroom.

Covered Topics:

- The use of learning materials to deliver a full small engine course.
- How to properly identify a Briggs & Stratton engine along with how to obtain support information.
- How to access useful information via Briggs & Stratton's websites (If you have a laptop computer with wireless Internet capabilities, be sure to bring it with you!)
- Four-cycle theory will be explored thoroughly through the use of multimedia.
- Hands-on tear down of a 13 cubic inch OHV engine.
- Explanations of engine systems from A to Z, including:
 - Carburetors
 - Ignition
 - Compression
 - Fuel & Oil
 - Governors

Who should attend?

- Training professionals that are in need of a thorough refresher or have little knowledge of basic small engines and 4-cycle theory.
- Instructors who have never taught an engines course before.
- Teachers who are looking for pre-existing curriculum and instructions on how to best apply it in class.

Prerequisite: None.



Course Package Amenities

- Lodging (individual room)
- Breakfast & lunch on day(s) of class
- 1 dinner banquet
- All course materials
- Transportation between the training facility and place of lodging
- Framed certificate to qualifying graduates
- Network with fellow instructors
- Personal attention (typical class size is 20 students)
- Please make travel arrangements to arrive the day before class starts (Sunday) and to depart after class ends (Friday morning)
- Individual is responsible for own transportation to/from airport and hotel.

Course Title	Course Fee (Includes Lodging)	Course Fee (No Lodging)	MST Fee (Lodging Fee Only)	Instructor with CE9001A Kit Purchase
Beginner CTE Instructor School	\$1,000.00	\$500.00	\$500.00	FREE

- Active MSTs receive free admission at each training course (excludes lodging or transportation to/from Milwaukee).
- Purchasers of CE9001A Training Kit receive one FREE factory school course (includes lodging, excludes transportation to/from Milwaukee).
 - **FREE course offer is valid for up to 2 years from date of purchase of CE9001A Training Kit.**
 - **Include copy of invoice for CE9001A Training Kit with application.**
- We're so confident you'll be pleased with your experience that we offer a money-back guarantee if you are not satisfied with your training.

NOTE: All classes are held at the Briggs & Stratton Training Center in Menomonee Falls, WI. Briggs & Stratton reserves the right to cancel a scheduled course up to 10 days prior to the start date. If a cancellation does occur, Briggs & Stratton will promptly notify you of alternate dates available, but will not accept liability for non-refundable travel tickets.





2022 Factory Service Training Courses Application

Courses held at Briggs & Stratton's Customer Education Training Facility in Menomonee Falls, WI

Date of Application _____
School/Organization _____
Address _____
City _____ State _____ Zip _____
Telephone Number _____ Fax Number _____
School E-Mail _____ Years of Industry/Teaching Experience _____

Applicant Name _____ Gender _____
Home Address _____
City _____ State _____ Zip _____
Cell Number _____ Personal E-Mail _____

Course:

☐ Beginner - June 20-23, 2022

☐ Beginner - July 18-21, 2022

Customer Education & the EETC



Briggs & Stratton is a strong supporter of the Equipment and Engine Training Council (EETC). The EETC is deeply involved in two distinct areas, technician certification and school

accreditation. Attending a Briggs & Stratton course will help the technicians with fundamental knowledge that can be applied to EETC certification tests. Additional information can also be supplied to Vo-Ed Instructors for developing an accredited EETC educational facility. For additional EETC information, visit www.eetc.org.

☐ CTE Instructors please attach a copy of the invoice for the CE9001A Training Kit if you purchased one within the last 2 years to receive free course.

☐ NO LODGING REQUIRED

Please Make Travel Arrangements To Arrive On Sunday And To Depart on Friday

Payment can be made by credit card, purchase order or check, payable to Briggs & Stratton, LLC.

Submit application/payment via e-mail at cust.ed@basco.com, fax to 414-259-5214 or mail to: Briggs & Stratton, LLC, Attn: Customer Education, P.O. Box 702, Milwaukee, WI 53201-0702.

(Check one) ☐ Visa ☐ MasterCard ☐ American Express ☐ Discover

Print name (as it appears on card):

Account Number:

Signature:

Exp. Date:

NOTE: PLEASE USE (1) APPLICATION FORM PER PERSON ATTENDING • CANADA ONLY: Please make school fee payable in U.S. funds.
CANCELLATION MUST BE RECEIVED IN WRITING AT BRIGGS & STRATTON 10 DAYS PRIOR TO THE WEEK SCHEDULED TO OBTAIN A REFUND.

I understand that Briggs & Stratton may take photographs and/or video of event participants and activities. I agree that Briggs & Stratton, LLC shall be the owner of and may use such photographs and/or videos relating to the promotion of future events. I relinquish all right that I may claim in relation to use of said photographs and/or videos.

Signature of Participant

Date

2022 Beginner CTE

Instructor Field School

Workshop is limited to 20 teachers, secure your spot today!

Introduction:

If you are an instructor who is relatively new to teaching small engine technology, then this is where you'll want to start! This 3-day course should arm you with enough knowledge and confidence to conduct your own basic small engine class. The program is a curriculum that follows lesson plans designed for high schools and middle schools. We teach the curriculum to you so you get the benefit of our technique along with on-going discussion as to what we aim to accomplish with each topic.

You will perform a complete teardown and reassembly of a horizontal shaft Overhead Valve (OHV) engine. The engine is a springboard to all the different systems that are required for a gas engine to operate. In addition, you will receive an assortment of training materials from CDs, PowerPoint presentations, teardown scripts and more, so that you will be able to teach the same concepts and procedures in your own classroom

What Will You Receive?

- Small Engine Curriculum - digital format USB
- Small Engines Textbook, long considered the "bible" in this industry
- Small Engines Workbook. Three levels of testing; easy, medium and hard to challenge your students
- Lunch and Refreshments each day

Who Should Attend?

- Training professionals that are in need of a thorough refresher or have little knowledge of basic small engines and 4-cycle theory
- Instructors who have never taught a small engines course before
- Teachers who are looking for an organized curriculum and instructions on how to best apply it in class

Covered Topics:

- The use of learning materials to deliver a full small engine course
- How to access useful information via Briggs & Stratton's websites (If you have a laptop computer with wireless Internet capabilities, be sure to bring it with you!)
- Four-cycle theory is thoroughly explored through the use of multimedia
- Hands-on tear down of a 13 cubic inch OHV engine
- Explanations of engine systems from A to Z including Carburetors, Governors, Fuel & Oil, Compression and Ignition



Please Contact Michael Blanc with any questions | 614-534-2332 | michael.blanc@powerdistributors.com



2022 Beginner CTE

Instructor Field School

June 7-9, 2022

West Virginia University

4425 Agricultural Sciences - Morgantown, WV 26506-6108

Contact: **Dr. Preston Byrd** Email: preston.byrd@mail.wvu.edu

Office: **(785) 293-5255** Cell: **(864) 245-5373**

Name	Date of Birth	Home Address	
City	State	Zip Code	
Phone #		Email	
Briggs & Stratton® Power Portal Login ID (If Applicable)			
School / Organization		Address	
City	State	Zip Code	
Phone #		Fax #	
Email			

School Fee:

\$600.00 per instructor – Payable to
West Virginia State University
An invoice will be sent to you once you
make contact with Dr. Byrd



2022 Beginner CTE

Instructor Field School

June 14-16, 2022

Sam Houston University

Harrell Agricultural Engineering Technology Center
2224 Avenue M - Huntsville, TX 77340

Contact: **Dr. Ryan Saucier** Email: ryansaucier@shsu.edu Phone: **(936) 294-4883**

Online Registration Available - <https://www.judgingcard.com/Registration/Info.aspx?ID=12932>

Name	Date of Birth	Home Address	
City	State	Zip Code	
Phone #		Email	
Briggs & Stratton® Power Portal Login ID (If Applicable)			
School / Organization		Address	
City	State	Zip Code	
Phone #		Fax #	
Email			

School Fee:

\$600.00 per instructor – payable to
Sam Houston State University
Travel and Lodging not included



2022 Beginner CTE Instructor Field School

June 21-23, 2022

Prairie View High School

13731 KS Hwy 152 Lacygne, KS 66040

Contact: **Trenton Smedley** Email: tsmedley@pv362.org Phone: **(620) 305-8329**

Name		Date of Birth		Home Address	
City		State		Zip Code	
Phone #			Email		
Briggs & Stratton® Power Portal Login ID (If Applicable)					
School / Organization			Address		
City		State		Zip Code	
Phone #			Fax #		
Email					

School Fee:

\$600.00 per instructor – payable to
Prairie View FFA Alumni

Mail Payment to: Trenton Smedley C/O Prairie View High School
13731 KS Hwy 152 Lacygne, KS 66040
Travel and Lodging not included



2022 Beginner CTE

Instructor Field School

July 12-14, 2022

Utah State University
Agricultural Systems Technology & Education Building (ASTE)
1498 N 800 E - Logan, UT 84332

Contact: Michael Pate Email: michael.pate@usu.edu
Phone: (435) 797-0989 Cell: (479) 879-6217

Name	Date of Birth	Home Address	
City	State	Zip Code	
Phone #		Email	
Briggs & Stratton® Power Portal Login ID (If Applicable)			
School / Organization		Address	
City	State	Zip Code	
Phone #		Fax #	
Email			

School Fee:

\$600.00 per instructor – payable to
ASTE Department
Mail Payment to: ASTE Department
2300 Old Main Hill, Utah State University
Logan, UT 84322-2300



2022 Beginner CTE Instructor Field School

July 19-21, 2022

Southern Arkansas University

Agriculture Building

100 E. University MSC 9418 - Magnolia, AR 71753

Contact: **Dr. Trent Wells** Email: ktwells@saumag.edu

Office: **(870) 235-5410** Cell: **(205) 471-1303**

Name	Date of Birth	Home Address	
City	State	Zip Code	
Phone #		Email	
Briggs & Stratton® Power Portal Login ID (If Applicable)			
School / Organization		Address	
City	State	Zip Code	
Phone #		Fax #	
Email			

School Fee:

\$600.00 per instructor – payable to
Southern Arkansas University
Travel and Lodging not included



2022 Beginner CTE

Instructor Field School

July 27-29, 2022

South Dakota State University

1145 Medary Ave, 106 Wenona Hall, Box 507, Brookings, SD 57006

Contact: **Dr. P. Troy White** Email: peter.white@sdstate.edu Office: **(605) 688-4546**

Name	Date of Birth	Home Address	
City	State	Zip Code	
Phone #		Email	
Briggs & Stratton® Power Portal Login ID (If Applicable)			
School / Organization		Address	
City	State	Zip Code	
Phone #		Fax #	
Email			

School Fee:

\$600.00 per instructor – payable to
SDSU Ag Ed Club
Travel and Lodging not included

2022 Beginner CTE Instructor Workshops

July 12-14, 2022 and July 19-21, 2022

Each workshop is limited to 16 teachers; Register today!

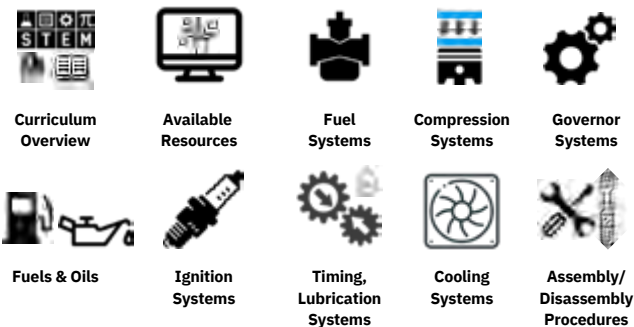


Why Attend:

This 3-day hands-on workshop will provide you the knowledge and confidence to conduct your own basic 4-cycle small engine course. The curriculum and lesson plans are designed for high schools and middle schools, and we teach you how to make the subject matter engaging and interactive with multi-media resources and hands-on labs.

Our factory-trained, certified instructors teach the course curriculum to you in this **train-the-trainer** workshop. Our goal is to make your small engine program impactful, engaging, and interactive!

Topics:



Note: We teach with the Briggs & Stratton 950 Series horizontal shaft, OHV engines. These are found in many of the engine kits that we sell.

Who Should Attend:

- Training professionals that need a thorough refresher or have little knowledge of basic small engines and 4-cycle theory
- Teachers or Student-teachers who have never taught a 4-cycle small engines course before
- Teachers who are looking for an organized curriculum and instructions on how to best apply in class

Whats Included:

- (3) nights Lodging @ Fairfield Inn & Suites by Marriott
- Lunch and Refreshments each day
- Small Engine Curriculum - USB
- OHV Engine Instructor's Reference - USB
- (1) Small Engines 4th Edition Textbook & Workbook

Tuition:

- \$1,100.00 per teacher (3-nights lodging included)
- *Travel not included

Training Location:

Equipment & Engine Training Council's Training Center
344 Oak Grove Rd, Kings Mountain, North Carolina 28086



Scan The QR Code

To learn more and register



Specialty Tools



19300 Basic Tool Kit

KIT INCLUDES:

19070	Piston Ring Compressor (5 HP & below)	19598	Digital Tach & Hourmeter
84003327	Tester - Ignition	19619	Flywheel Puller
19433	Flywheel Strap Wrench	19620	Fuel Line Removal Tool
19480	Tang Bender	795161	Alcohol Fuel Tester
19545	Leakdown Tester	CE5121	Air Gap Gauge .010" (.254 mm)

For prices and ordering, see the inside front cover for your regional source of supply contact.

19461 Primer Bulb Removal Tool



For quick and easy removal of primer bulb and retainer on engines equipped with primer bulb system.

19462 Primer Bulb Installation Tool



Installs new primer bulb and retainer in a "snap."

19468 DC Amp Shunt



Used to measure amperage in a 12 volt system. Color-coded receptacles hold digital multimeter leads securely while testing. This tool works with any digital multimeter with a millivolt scale. Eliminates blowing the fuse in multimeters, due to high current loads such as charging and starting.

19545 Leakdown Tester



Used to test the sealing capabilities of the compression components of all engines. Comes with crankshaft clamp.

19598 Digital Tach & Hourmeter



Meter displays RPM while engine is running. When engine is stopped, meter displays elapsed time.

19602 Digital Meter



Meter features the ability to test for AC or DC voltage, resistance (Ohm's), capacitance, diode function, temperature. Incorporates clamp for easy measurement of amperage. (Reads up to 400 amps AC or DC)

19607 Otoscope



The Otoscope allows the technician to see into small passages and jetting of carburetors at 2x magnification.

19608 T40 Plus Torx® Bit



This Plus Torx® bit design is to be used for the Model 31 & 33 rod bolts. If the technician tries using a standard T40 Torx bit on these rod bolts, they will have a real potential of stripping the head of the bolt.

19620 Fuel Line Removal Tool



This tool is essentially a pry bar for removing fuel line from barbed fittings. The bar is carefully formed, machined, hardened and plated to ensure a long life. To use, remove fuel line clamps. Push fork at end of tool behind the end of the fuel line. Carefully leverage the tool against some existing engine component as a fulcrum and pry fuel line from fitting. Use caution to prevent damage to linkage or fuel system controls. Inspect all removed fuel lines for damage or hardening and replace as necessary.

19638 4-Blade Feeler Gauge Set



Precision stepped blades have a 0.002 inches step for accurate settings. Blade sets include 0.004/0.006, 0.005/0.007, 0.006/0.008, 0.009/0.011. Each blade is approximately 1/2" wide by 3-1/4" long.

795161 Alcohol Tester



Marked with alcohol content lines at 10%, 20%, 70% and 85%. This provides the technician with visual cues as to the alcohol content in gasoline.

84003327 Ignition Tester



Designed to simulate true engine ignition resistance and system capabilities under safe test conditions.

CE5005 SAE & Metric Equivalence Stainless Steel Scale - (10 per bag)



This tool is almost a requirement for the shirt pocket of any technician. Made of flexible stainless steel, this SAE & Metric Equivalence Scale is equipped with a T-square/pocket clip that functions as a depth gauge. One side of the scale is metric and displays millimeters. The other side is graduated in inches and displays 64ths. The reverse side features a handy decimal equivalent chart.

CE5121 Ruler/Air Gap Gauge



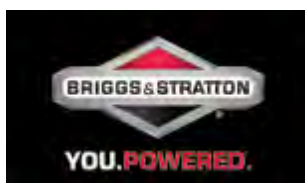
Disguised as a flexible SAE & Metric polymer ruler, this tool's hidden purpose is a reusable, armature air gap gauge. To use, back the armature out to its widest clearance and snug it down. Line the flywheel magnet up with the armature, insert the gauge between the two and loosen the armature screws. The magnet will pull the armature down to the gauge. Tighten and torque the screws and remove the gauge. Sized at .010 to .012 inch, this setting can be used for all Briggs & Stratton® engines.

Master Parts Catalog



Includes tool section. Now available to view on the Power Portal > Briggs & Stratton > Sales and Marketing

AM3006 You.Powered. Banner



Size 48" x 28"

Vinyl, with corner eyelets. Printed on one side only.



www.eetc.org



YOU. POWERED.

At the end of the day, a job well done is its own reward. Our equipment is there to help make it happen. It's easy to master, durable and ready for a challenge. Just like you.



 *the* **PowerPortal**



YOU. POWERED.