



Setting Standards for Safer Boating

Schedule

Basic Engines

The ABYC Basic Engines Course is a three-day program designed as a generic primer for both gasoline and diesel fueled engines and related systems. The course content is geared toward the less experienced engine technician or marine surveyor, or for anyone interested in learning the essentials surrounding inboard marine engines. Candidates for this course would include anyone with some mechanical background that is just entering into the marine field and wants to learn the basics for troubleshooting, maintaining and installing marine engines. Successful attendees will walk away from this class with a clear understanding of how engines work, what the differences between gas and diesel engines are and how marine engines may differ from their land based counter-parts. Engine fundamentals will be discussed at length, building a foundation for the successful troubleshooter to work from. As part of this course we'll look at fuel systems, both gas and diesel, ignition systems on gasoline fueled engines, and basic ABYC exhaust system requirements. In addition, engine cooling systems, both fresh and raw water will be explained in detail. Again, for both gas and diesel, extensive troubleshooting methods and procedures will be discussed in class, providing the successful attendee with the knowledge necessary to attack an engine's no run, or poor run conditions with confidence. Finally, We'll take a look at basic marine drive systems as part of this course with an emphasis on material required to prepare for either the ABYC Gas or Diesel Engine Certification exams. This course is an excellent pre-requisite for mastering the experiential elements for either of the ABYC Engine Certifications. Its important to note that the content for this course is primarily based on accepted industry best practices, vs. ABYC Standards, however some Standards based material will be presented.