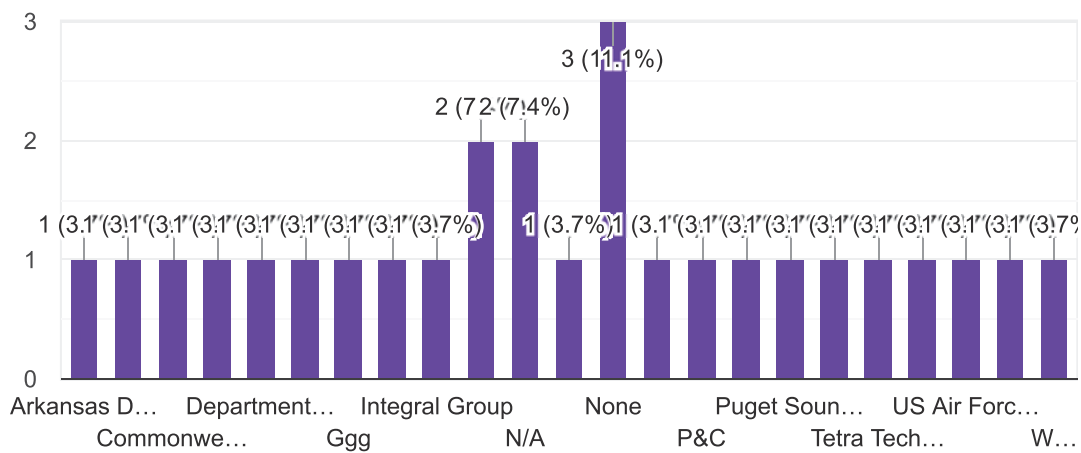


April 2019 - Thermal & Fluids PE Exam RESULTS Survey

27 responses

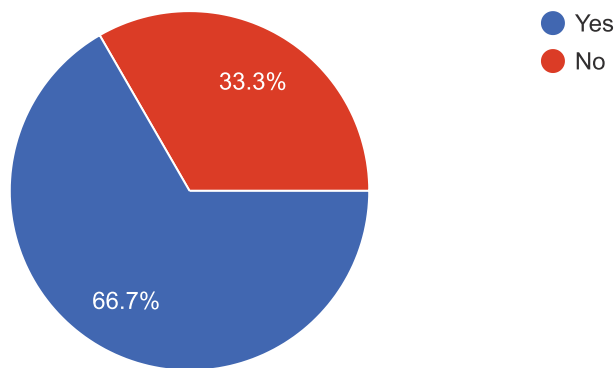
Company Name

27 responses



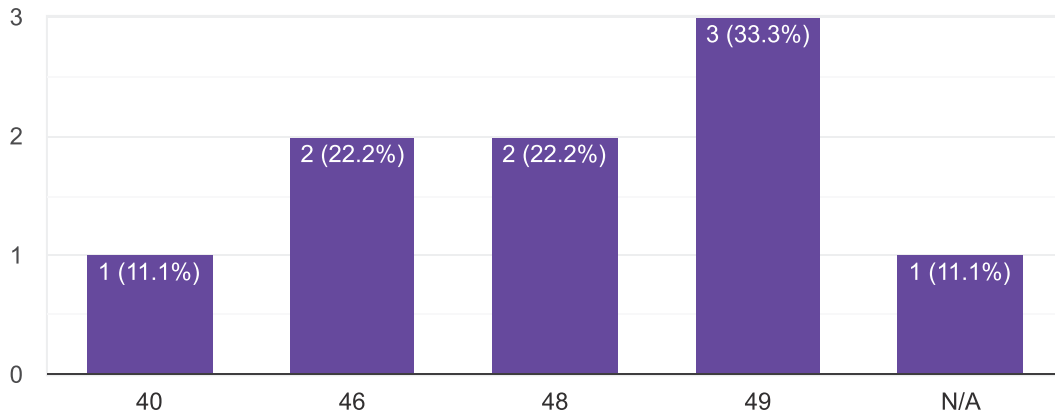
Did you pass the PE exam?

27 responses



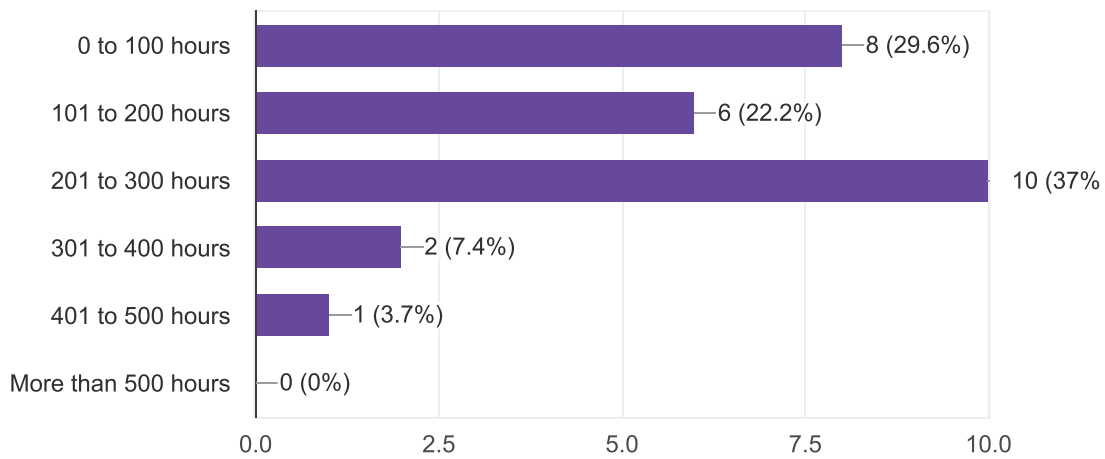
If you did not pass the exam, then what was your score out of 80? (____ / 80)

9 responses



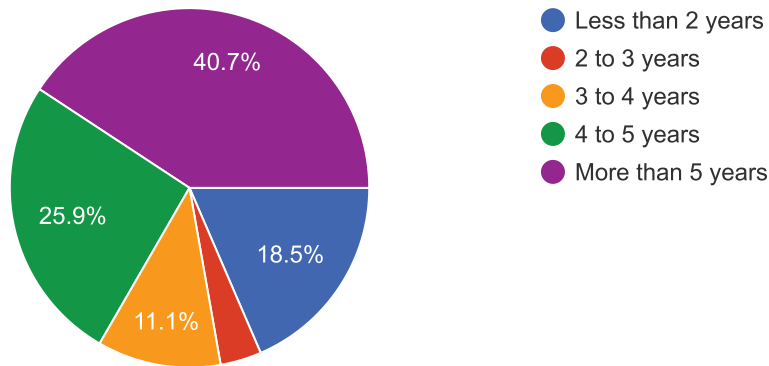
How many hours did you study for the exam?

27 responses



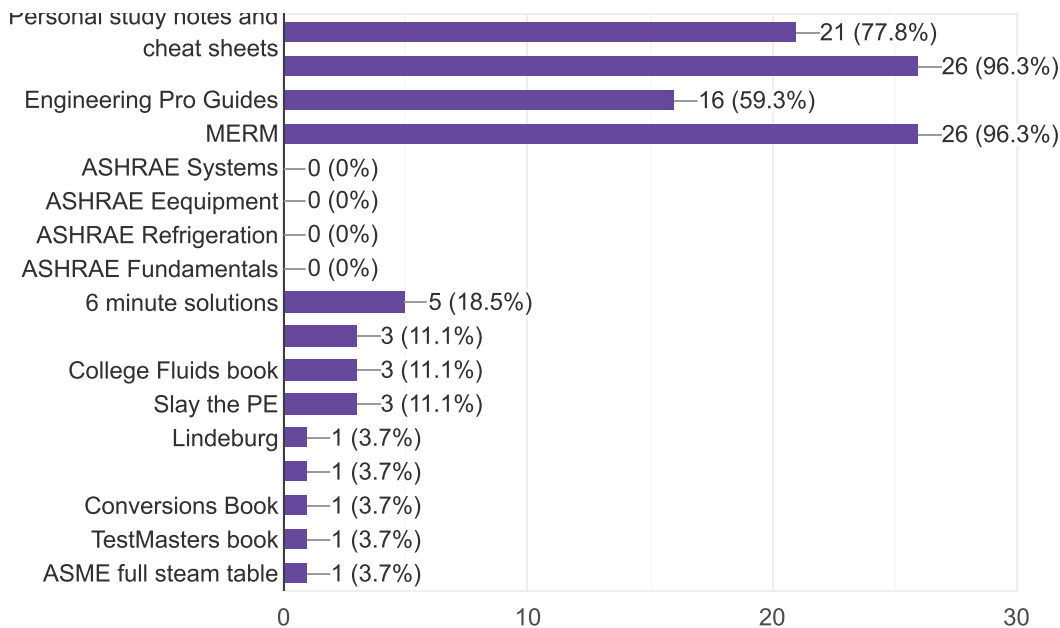
How many years of engineering experience did you have at the time of the exam in the fields tested by the exam?

27 responses



Which references do you recommend for the exam?

27 responses



What do you wish you knew before you started studying?

27 responses

A number of the practice questions are recycled with only very slight changes.

NA

Nothing

3-4 months of study would be a good amount of time, i spent 2 1/2 months and wish I started earlier,

N/a

To not spend so much time in the MERM. It has way TOO much information. DO PRACTICE PROBLEMS

Importance of pace

Between Pro Guides and the NCEES practice test, I felt very well prepared. I can't think of anything specific I wish I had known that I didn't.

Psychrometeics

Typical amount of studying hours

How many different practice exams were out there. Every practice exam you can add to your study material the better.

Practice more problems

HVAC questions with psychometrics and natural convection was not in the exam, I went through it too much

Be familiar with all of the topics listed in the NCEES Exam Specifications. Do not skip a topic unless you're 100% ok with skipping those problems. Schedule time to take a break from studying (like go a week or a few weekends without studying). It's better to prolong your studying time than to feel completely burned out and rushed by test time.

Really take a look at the subjects that will be tested. Concentrate on those.

Not sure

What resources were good (NCEES Exam, Eng Pro Guides) and which were crap (Six-Minute Solutions)

You want at least 3 solid months of doing only practice problems/ practice tests. If you need to review or go through the EPG Study Guide, do that a month in advance. So at least 4 months of studying recommended.

Power Cycles, Mass Balance, HVAC

Useful Practice Tests

Metric system, more HVAC types of problems

Take lots of different practice tests early

How much time it takes to organize and catalog reference materials

Unit Conversions

N

Skip trying to do the MERM practice problems, they are significantly harder than the actual exam. Focus on NCEES exam and EngProGuides problems and putting together useful references where you know how to quickly get the equations you need to solve the problems.

Practice

What do you wish you practiced or studied more?

27 responses

Anything to do with a steam table or thermodynamic cycle.

Questions using metric units

Thermo, and TFS Applications

Definitely power cycles especially combined power cycles, That'll be my #1 area of focus.

Refrigeration cycle and SI units

Nothing

Support knowledge

A little more exposure to HVAC would have been helpful, but only slightly.

NA

Power cycles

I needed to study more combined cycle problems and more SI units problems.

Thermodynamic

Heat transfer

units and conversions, pipe system analysis, pressure vessels, basic thermodynamic cycles

No

Not sure

Everything. Just could have spent a little more time in the books.

Metric style problems (~~significantly more on the test than I was expecting, which threw me off~~). Hydraulic equipment problems, HVAC style problems, combined cycles, cooling and heating, supportive knowledge (ie. beam problem).

Power Cycles, Mass Balance, HVAC, Power Consumption/Cost

Problems

HVAC air flow problems

Cycles

Some of the more difficult Fluid Mechanics concepts/problems

PSych Charts

N

~~I wanted to complete more practice problems on most topics, but combined power cycles and compressed flow challenged me in particular. But neither is a major component of the exam.~~

Combined cycles

Additional comments or words of advice for future test takers?

27 responses

I studied zero hours for this and I think was just about on the pass line. (I estimated 52-60 raw score including guesses.) Even a little bit of reviewing thermodynamic cycles likely would have left me confident after the test, instead of uncertain.

Practice tons of different problems

Practice exam is the most helpful tool. Go through it before the test and truly understand the solution. Then bring it to the exam to use as a go-by for similar problems

NCEES practice exams and Slay the PE are you're best resources. Don't spend too much time studying concepts. Definitely go over fluids and power cycles though. I wanna say spend 20% studying concepts and 80% studying the practice exams.

Practice, practice, practice

DO PRACTICE PROBLEMS

Practice tests and take time off to study

Be mindful of your speed in answering questions while taking practice tests. The Pro Guides and NCEES practice tests are a MUST and are very similar in difficulty to the actual test. If you can nail down your speed with those questions, the test should follow suit.

NA

Start months in advance, give yourself the time you need to study.

Take all of your practice exams into the test no matter how useful they were while studying. I was going to have to guess on an additional 3 questions on the afternoon until i found questions that were very similar in

one of my practice exams.

NCEES Mock Test is the best material you should get from the market.

Do multiple practice test and questions, actually solve it instead of saying how you would do it to see when you would make mistakes

If you are self-studying, I'd recommend only taking at most a month to review theory. Skim through the NCEES practice test to get a feel for your weak spots. Give yourself at least 2.5 months for actual practice problems. Take as many practice tests you can find and be sure to do a few at least twice and in a timed environment. It's totally possible to finish a section with 30 minutes to an hour for review and to go over the problems you skipped. There are only a handful of problems where you'll need to take several minutes to figure out what the problem is asking and then solve it.

I hadn't studied these concepts in years. I took my time doing all of the MERM questions in each of the applicable chapters. If I could do it again, I would just do a couple, then go to the next chapter. After finishing all of the applicable chapters, I'd go back and finish up the questions I didn't do.

Not sure

Start early and be consistent.

Don't wait till the last few days or week to prepare a personal cheat sheet or organize your practice problems. Prepare the binder as you go. That way the last week you can focus on just practicing problems instead of re-writing everything cleanly and organizing. Ideally would want to have this ready before you do a practice test so you can practice referencing it and using them. That way the last week of studying you can focus on practicing problems.

Study more practice problems

Practice Tests: Engineering Pro and NCEES are the best

Rank the questions and do easiest first. Start studying early.

Keep a regular study regimen, do practice tests every couple weeks, simulate real test environment

You won't have time to flip through a bunch of binders and books during the exam, so make things concise, well-tabbed, and organized. Keep a close eye on the clock and set milestones (e.g., 10-12 problems per hr) so you don't fall behind.

Study early

Time management is the hardest part

Home built equation sheets (or just page number of where to find the equation in MERM/EngProGuide) along with common constant values save lots of time. A unit conversion table is an absolute must (EngProGuide was sufficient). A standalone MERM appendix helps speed up looking up info. Color code tabs to match between reference helps speed cross referencing between subjects. I prefer multiple small binders over a few large ones so you can have a few open at a time. (unit conversion, MERM appendix, MERM book, NCEES Exam, EngProGuide+Exam, thermo tables, and a binder of other potentially useful, but not likely to be used info just in case.) Be sure you know what the problem is really asking before diving into a solution. It is likely only asking to solve a small aspect of a much more complicated problem.

Practice n time manage

If you purchased an Engineering Pro Guides product, please leave a review for the Engineering Pro Guides material. Any suggestions on how to improve or comments on what you liked and what you didn't like will be very helpful.

18 responses

Engineering Pro practice exam is a good warm up but It's too easy compared to the real exam. NCEES and Slay the PE exam are closer to the real one difficulty wise.

Practice test was very realistic. Not too hard, not too easy.

Practice exam and study guide

Excellent product. An absolute must. I doubt I would have passed without it!

Updated

Problems were a bit simpler than the actual exam, but both the study guide and practice exam were a great foundation for starting to study.

I purchased the TFS practice exam. I felt like this was the "easiest" of the exams I purchased. In my opinion, there were too many problems relating to HVAC on the TFS practice exam. A more varied question pool would provide better practice for the real deal.

Good stuff, kind of easier than the real test but it is a good start point though.

N/A

The Engineering Pro Guides Practice Exam is good as a timed practice test. It does not have a problem for each topic, but it provides a good variety of HVAC problems which other practice tests on the market do not cover. I wish there was a single answer key at the end so you can quickly grade practice tests. The extra problems were not very beneficial, as most were conceptual. Overall, I appreciate the quality of this practice exam for its price.

The questions / concepts are great, but more difficult questions (with unneeded information in there) would be beneficial.

Will do!

The practice test was good, the questions were of similar quality and difficulty to the NCEES practice exam and similar to the actual exam. I was surprised by the number of metric problems on the actual test, kind of brushed those off in the practice tests since there were so few to do. So a little more practice with metric problems would have been helpful. For the EPG Study Guide the page numbering through me off. I think it would have been better to have continuous numbering instead of restarting the numbering for each section because when you went to the index it was sometimes hard to quickly go to the correct section and find the correct page. I think some online videos of some of the more difficult problems or tips and tricks of how to solve certain problems in each section of the practice test and study guide would be very helpful. Sometime you see the solution and have trouble figuring out how the solutions got to it.

Be more specific with MERM chapters. Solution only had Refer to MERM (what Chapter-Section-Page)

Less Steam Table Problems

I purchased all 3 guides. Sample test was very good. Reference book wasn't used, I only had a few books in the exam. Review book was very good (as good or better than expensive review books). All the guides focused on USC units, needs more metric examples or conversions.

Questions on engineering pro guides were helpful, but also easier than ones on the actual exam

EngProGuides were a great intro to the basics of the exam content especially having been away from pretty much all of the material besides fluids for quite a few years. Some duplication of material between sections, but is OK. Practice problems were a great study tool.

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