

# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

T.J. Mulqueen

Company Name \*

McKinstry

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Work as many problems as you can

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### What do you wish you practiced or studied more? \*

ASHRAE references

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### Additional comments or words of advice for future test takers? \*

Do as many problems as you can and get familiar with the layout for the ASHRAE books

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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.

Excellent guide and recommend it to anyone looking to take the exam.

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First Name \*

Richard

Company Name \*

NYSOGS

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

50

How many hours did you study for the exam? \*

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6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

The difficulty of questions in MERM practice book is not reflective of the actual difficulty of exam questions earlier in my study session

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### What do you wish you practiced or studied more? \*

Ncees practice questions and ASHRAE lookup questions

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Additional comments or words of advice for future test takers? \*

Study more than me and don't cram and overstress yourself

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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.

I found your book with about a month to go and I wish I found it earlier instead of focusing on the Lindell practice book so much. Didn't cover as many topics as quickly as I should have

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First Name \*

Aaron

Company Name \*

Speedway

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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\_\_\_\_\_

How many hours did you study for the exam? \*

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6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

I wish I had known about the Eng Pro Guides study guide sooner and used it as the basis of my studying from the very start. I originally started with the MERM/MERM practice problems which aren't all that reflective of the actual exam.

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## What do you wish you practiced or studied more? \*

I passed so I'm not sure if there is anything specific. Maybe I wish I would have been a little more familiar with the MERM and especially the ASHRAE books for quicker problem/information lookups.

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## Additional comments or words of advice for future test takers? \*

Bring all 4 ASHRAE books and tab important sections. It isn't critical to have the most current versions or matching editions, but it does help for quicker indexing between each book because mismatching editions will have indexes that lead you to the wrong section of another book as the sections may have been rearranged between versions.

Start studying with Eng Pro Guides and use it to create a reference binder for the test. It's super cheap and gives very simple, easy to understand explanations. It was my best resource besides the ASHRAE books. I can confidently say I don't think I had a shot of passing the test without it. I put the study guide in one binder and the formula cheat sheets, practice problems from the study guide, the practice tests, and any other practice problems I had in another binder. I divided the problems by section (heat transfer, psychrometrics, fluid mechanics, etc.) and then sorted each section by what I was solving for and used tabs for those. Just be organized and comfortable with your organization method!

Bring a wrist watch and don't waste time on problems you are unsure of until you've done everything you're confident about!

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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.

The study guide was awesome, super simple to understand, and very cheap! The rest of my feedback is detailed above in previous questions, but, like I said, I don't think I would have passed without this study guide. It was a huge help and it was organized very well. The only negative I can think of is that there are some typos throughout that can be distracting and at least one or two formulas that are incorrect and don't match the formula cheat sheets. One formula that may need reviewed (if I remember correctly) is the radial heat transfer from a rod/pipe. I think that formula was different than the one I saw in the NCEES practice exam. Other than those minor flaws, I loved the guide! I've already recommended it to some friends!

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First Name \*

JT

Company Name \*

PACE Collaborative PC

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

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6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

There are many seemingly "random" questions that were not covered on either practice test

## What do you wish you practiced or studied more? \*

General MERM topics



### Additional comments or words of advice for future test takers? \*

Don't study more than 80-100 hours. Focus on known problem types but try to anticipate the wrinkles that could be thrown in to those problem types.

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First Name \*

Paul

Company Name \*

Air Force

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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\_\_\_\_\_

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- 6 minute solutions
- NFPA 90A/90B
- Other: MERM Quick Reference, Unit Conversion book

### What do you wish you knew before you started studying? \*

Steam and water topics were a weak area from less study

### What do you wish you practiced or studied more? \*

Steam, Gas, food refrigeration topics

### Additional comments or words of advice for future test takers? \*

Do as many practice problems as possible across many topics.

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.

Think it did a good job covering the fundamentals. Some additional problems such as some of the different distribution systems or refrigeration topics would be nice.

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First Name \*

Luke

Company Name \*

AME

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

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- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Valves and controls

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### What do you wish you practiced or studied more? \*

Valves and controls

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### Additional comments or words of advice for future test takers? \*

Take your time, study an hour or two a day.

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First Name \*

Thomas

Company Name \*

GEA

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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\_\_\_\_\_

How many hours did you study for the exam? \*

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- ASHRAE Refrigeration
- ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Nothing really. Recommend doing mostly practice problems

### What do you wish you practiced or studied more? \*

Controls

### Additional comments or words of advice for future test takers? \*

The day itself is the hardest part. Get to the site early and try to be as well rested as possible.

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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.

The practice exam was truly excellent. It's content was so diverse and all very relevant. I learned so much going through the exam and solutions.

---

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First Name \*

Ryan

Company Name \*

Carpenter Associates

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

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ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

The amount of questions from the Ashrae books.

## What do you wish you practiced or studied more? \*

Controls

## Additional comments or words of advice for future test takers? \*

Be familiar with the Ashrae books.



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First Name \*

Andy

Company Name \*

Lilker Associates

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

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

- Less than 2 years
- 2 to 3 years
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- 4 to 5 years
- More than 5 years

## Additional comments or words of advice for future test takers? \*

Use your references. If you don't know the answer, at least know where you need to look to find or get a better sense of the question.

---

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.

The exam was nice and gave some background knowledge. Definitely need more questions to brush up on the wide array of questions you may potentially get.

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First Name \*

Shaley

Company Name \*

Vbfa

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

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- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

Find your weak points and focus on them

---

## What do you wish you practiced or studied more? \*

Better knowledge of ASHRAE books

---

## Additional comments or words of advice for future test takers? \*

Work as many problems as possible

---

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.

The material covered was helpful. It was nice to have pdf right away after purchase.

---

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First Name \*

Jenny

Company Name \*

HVAC

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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\_\_\_\_\_



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- Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

exam difficulty level

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## What do you wish you practiced or studied more? \*

ASHRAE books

---

## Additional comments or words of advice for future test takers? \*

Study and trust yourself

---

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Good reference

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First Name \*

Ahmed

Company Name \*

Therb for contracting

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

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- 6 minute solutions
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Other: \_\_\_\_\_

What do you wish you knew before you started studying? \*

Nothing

What do you wish you practiced or studied more? \*

Humidifires operation principles

Additional comments or words of advice for future test takers? \*

The more u study ,the more you will be more confident ,accurate and efficient

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Other: \_\_\_\_\_

What do you wish you knew before you started studying? \*

Nothing \_\_\_\_\_

What do you wish you practiced or studied more? \*

Humidifires operation principles \_\_\_\_\_

Additional comments or words of advice for future test takers? \*

The more u study ,the more you will be more confident ,accurate and efficient \_\_\_\_\_

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First Name \*

Anonymous

Company Name \*

Anonymous

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

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- Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

That ASHRAE books are key, and familiarity with ASHRAE material is paramount.

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### What do you wish you practiced or studied more? \*

More tabbing of the ASHRAE books.

---

### Additional comments or words of advice for future test takers? \*

Expect the unexpected.

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First Name \*

Omer

Company Name \*

AL- JAWEINI CONSULTING ENGINEERS

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_



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Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

HOW TO MANAGE YOUR TIME CORRECTLY DURING THE EXAM

---

## What do you wish you practiced or studied more? \*

HVAC SYSTEM CONTROL & ASHREA FOUR BOOKS

---

## Additional comments or words of advice for future test takers? \*

SHOULD FOCUS ON ASHREA (FUND., SYSTEM& EQUIPMENT'S, REF. AND STANDARDS)

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RECOMMENDED

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First Name \*

devin

Company Name \*

Arup

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

bring a watch  
\_\_\_\_\_

### What do you wish you practiced or studied more? \*

nothing  
\_\_\_\_\_

### Additional comments or words of advice for future test takers? \*

skim every chapter that relates to your field at the minimum  
\_\_\_\_\_

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.

not very good for the exam. but good enough as an initial review. The usefulness of the actual text during exam wasnt high. Missing a lot of information.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Thomas

Company Name \*

WRA

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_



How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

An earlier background in the subject matter.

### What do you wish you practiced or studied more? \*

Fluids

### Additional comments or words of advice for future test takers? \*

Always answer problems that seem easy first and move on to difficult ones after.

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---

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First Name \*

Frank

Company Name \*

Engineered solutions

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: Unit conversions book

## What do you wish you knew before you started studying? \*

Make index of all study notes neatly in binder so during the test you can immediately find a similar problem

---

## What do you wish you practiced or studied more? \*

Fluids

---

# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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First Name \*

Tom

Company Name \*

HVAC Services, Inc.

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



## Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

How beneficial the practice exams would be

---

## What do you wish you practiced or studied more? \*

I wish I had planned ahead to finish studying the material sooner, so that I could have taken more practice exams

---

## Additional comments or words of advice for future test takers? \*

Productive study time is worth much more than time studying. If overly frustrated or the material just isn't sticking in your head then take a break and start again later or the next day. If you begin early enough then there will be plenty of days to try learning a concept again.

---

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.

The guide was very helpful and explained all key concepts clearly in a straightforward, no-fluff manner. The cost was a no-brainer compared to the traditional route of studying the MERM(\$\$\$) book. Justin's additional support documents such as the equations sheet, conversions sheets, and practice exam were also excellent resources for studying and taking the exam. The guide itself had a chapter duplicated in it (I can't remember which one) where the first version of the chapter was incomplete, followed by the complete version of the chapter after that, so it seemed only an editing mistake. My only other qualm of the guide is that some of the end of chapter questions material didn't seem like they had been fully covered in the chapter, but with the answer explanations also included it was only a minor frustration. Overall very pleased with the guide, and I think I would even say so had I not passed the exam.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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First Name \*

RJ

Company Name \*

Clark Nexsen

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

I wish I was more comfortable with Bernoulli's equation

### What do you wish you practiced or studied more? \*

Fluids, but I don't think it hurt me studying that the least of all my sections

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Yue

Company Name \*

DWG

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

\_\_\_\_\_

timeline

### What do you wish you practiced or studied more? \*

\_\_\_\_\_

Valve and control system

### Additional comments or words of advice for future test takers? \*

\_\_\_\_\_

ASHRAE handbooks are helpful



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.

---

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First Name \*

James

Company Name \*

E1

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Don't burn out too quick.

---

### What do you wish you practiced or studied more? \*

More refrigeration specific problems. Look through every ASHRAE book and look at every table.

---

## Additional comments or words of advice for future test takers? \*

ASHRAE books are a must and look through all of them.

---

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.

Technical Study Guide is the best place to start studying. Really helped me get into a routine of study. Reference Test is one of the bet representations of what look-up problems are like.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Ahmed

Company Name \*

ARCHCORP

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

ASHRAE books are must

---

### What do you wish you practiced or studied more? \*

be familiar with ASHRAE books

---

### Additional comments or words of advice for future test takers? \*

ASHRAE books are must

---



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.

Engineering Pro Guides books make it easy to study, it is very useful and pretty close to real exam

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

N/A

Company Name \*

N/A

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Can't think of anything. \_\_\_\_\_

### What do you wish you practiced or studied more? \*

N/A \_\_\_\_\_

### Additional comments or words of advice for future test takers? \*

Study as much as you can. Practice test are great, but don't cover everything. Brush up on topics that aren't covered. Spend more time marking the ASHRAE books.

---

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.

N/A

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Kraig

Company Name \*

GA

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

38

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

The MERM is King, ashrae books, its Queen, everything else should be a supplement.

### What do you wish you practiced or studied more? \*

The MERM practice exam. The difficulty on that was much closer than any of the others I studied.



## Additional comments or words of advice for future test takers? \*

The practice exams available from here and NCEES are not at the difficulty level of the actual exam. Also, know your ashrae books top to bottom. I found them to be essential, but didn't review them enough going in to the exam.

---

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.

The example problems and practice exam problems were far too simple when comparing to the actual exam. While it helped get my confidence up, it didn't help in overall preparation. The most helpful product I used from EPG is the exam book that walks through the ashrae reference books, since those were used most often during the exam. I will be retaking the exam, but this time, I won't be using EPG as my main guide, but rather a resource for the bare basics.

---

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First Name \*

Joshua

Company Name \*

InSynergy Engineering

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

How much time I would need to commit to taking the test. \_\_\_\_\_

### What do you wish you practiced or studied more? \*

ASHRAE lookup questions. \_\_\_\_\_

# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Laura

Company Name \*

Shah Smith

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Look through/ be familiar with your ASHRAE books and what they cover

---

### What do you wish you practiced or studied more? \*

ASHRAE books

---

## Additional comments or words of advice for future test takers? \*

If you are going to use multiple resources, be familiar with them and tab to help you find equations and info more quickly.

---

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.

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First Name \*

Brandon Fortune

Company Name \*

GSA

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

49

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

What do you wish you knew before you started studying? \*

N/a

What do you wish you practiced or studied more? \*

Reading more ASHRAE material

### Additional comments or words of advice for future test takers? \*

Skip the ones you don't know right away. I spent too much time on questions I didn't immediately know.

---

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.

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Jared

Company Name \*

Bmcd

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

49

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

Start with MERM study questions  
\_\_\_\_\_

## What do you wish you practiced or studied more? \*

Controls  
\_\_\_\_\_

## Additional comments or words of advice for future test takers? \*

Relax  
\_\_\_\_\_

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.

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Vladimir

Company Name \*

City of San Diego

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

49

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

I wish I have couple of previously published NCEES sample problem books.  
\_\_\_\_\_

### What do you wish you practiced or studied more? \*

Solve more problems. Go through all the ASHRAE books and get familiarize.  
\_\_\_\_\_

### Additional comments or words of advice for future test takers? \*

PE is hard so take it seriously. Study at least 200-300 hours and solve as many problems as possible.

---

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.

I think the material that I purchased from EngProGuides help me improved my score. Still need more work to do to pass this coming Spring.

---

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Hayley

Company Name \*

McParlane and Associates

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

N/A

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Additional comments or words of advice for future test takers? \*

Bring all four ashrae books and tab through them for important tables, equations and values. Make sure to know where friction loss graphs for various ductwork and piping are.

---

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.

The engineering pro guides were great, I don't believe they should be thought of as the sole study guide for those taking the exam, but I think that it forms a great baseline for things you should be familiar with going into the exam. It also provides amazing structure for tackling a lot of material. After being comfortable with this guide, and relevant tables and charts I would say that gets you 75% of the way there. The other 25% is doing practice problems that are about 10-15% harder than those provided from Engineering pro guides.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Timothy

Company Name \*

EME Group

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_



How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

The MERM and associated MechE books are largely general reference guides that are great dust collectors on a bookshelf, but aren't focused into the individual disciplines that the test is focused on.

---

## What do you wish you practiced or studied more? \*

More practice problems that were actually to the level of detail and difficulty of the exam

---

### Additional comments or words of advice for future test takers? \*

Know your resources and references. If you prepare and organize your materials, you will have all the information you need to pass the exam. However, none of that will actually help you in the exam room if you can't access it in a quick and timely fashion.

---

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.

I purchased the general study guide and the sample exam. I wish I had the study guide when I first started in the HVAC industry and had little to no relevant experience from college. It went into a lot of great but general detail about systems and potential problems, however never in as much depth as might be required on the exam. The practice problems were immensely useful to drill and prepare for the types of questions that could be seen on the exam, much more so than 6 minute solutions and other MechE books that went far beyond the typical test question.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Jerry

Company Name \*

MAS

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

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.

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First Name \*

ef

Company Name \*

wef

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

49

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

What do you wish you knew before you started studying? \*

SGF \_\_\_\_\_

What do you wish you practiced or studied more? \*

SDF \_\_\_\_\_

Additional comments or words of advice for future test takers? \*

SDF \_\_\_\_\_

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.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Tres Amigos

Company Name \*

NA

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

48

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: conversion book

### What do you wish you knew before you started studying? \*

Trane Trace software

### What do you wish you practiced or studied more? \*

No ragrets, just wished i studied more

### Additional comments or words of advice for future test takers? \*

Study alot

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.

---

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Stephanie

Company Name \*

Enpg

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

50

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: Engineering Unit Conversions

What do you wish you knew before you started studying? \*

This exam is unlike the practice tests

What do you wish you practiced or studied more? \*

Everything, it seems. But particularly fluid dynamics

Additional comments or words of advice for future test takers? \*

Be very familiar with the ASHRAE handbooks

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.

It was incredibly helpful in breaking down key concepts. The reference exam is very useful in learning how to navigate the ASHRAE books

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Mike

Company Name \*

LBNL

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

40

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

I needed a better set of equations

---

### What do you wish you practiced or studied more? \*

Coil questions

---

### Additional comments or words of advice for future test takers? \*

Try again

---

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.

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Cody

Company Name \*

SS&A

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

49

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

The importance of the ASHRAE books.

### What do you wish you practiced or studied more? \*

ASHRAE applications

### Additional comments or words of advice for future test takers? \*

6 months out of college and taking the exam requires a lot of studying equipment, components, and applications.

---

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.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Eugene

Company Name \*

NAVFAC Marianas

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

Fluids

---

## What do you wish you practiced or studied more? \*

Refrigeration

---

### Additional comments or words of advice for future test takers? \*

Definitely get all the Engineering Pro Guide study guide and practice exams. Also, get to know how to navigate through the 4 ASHRAE Handbooks and tab sections in these books for easy navigation.

---

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.

The Engineering Pro Guides were very helpful in reviewing and understanding all the major material in the exam and has a very systematic approach to tackle the core subjects and with similar sample exam problems. I found the practice exams very helpful in my preparation and felt very confident on exam day. I highly recommend Engineering Pro Guides and found this resource as one of the best out there in my opinion. Thank you Justin!

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Charlie

Company Name \*

jmv

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

49

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

What do you wish you knew before you started studying? \*

the answers \_\_\_\_\_

What do you wish you practiced or studied more? \*

random question look up in ASHRAE \_\_\_\_\_

Additional comments or words of advice for future test takers? \*

good luck \_\_\_\_\_

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.

---

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Joseph

Company Name \*

LiRo Group

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

How much the ASHRAE books are used during the Exam

---

## What do you wish you practiced or studied more? \*

Its more about learning where to find the right formula or reference

---

## Additional comments or words of advice for future test takers? \*

Have a one page sheet for the conversions and formulas you will use most. This saves a substantial amount of time. Use this during the study process.

---

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.

I did purchase it and the material helped. Having a one page "go to" for the most frequent conversions would be ideal along with a well established index that would have to be made by the individual

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Will

Company Name \*

C3

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

47

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



## Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

Prepare your reference binder as if you will forget everything when the test starts so that you can quickly and easily access the information.

---

## What do you wish you practiced or studied more? \*

Heat Transfer - Review all the ASHRAE books and have a general idea of where to locate different subjects.

---

Additional comments or words of advice for future test takers? \*

Work as many problems as you can.

---

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.

The example problems in the actual book were too easy. The practice exam was better but still easier than the NCEES practice exam. Increasing the level of difficulty would help, but I found the both to be very helpful. I also thought some ideas you explained were the best explanations because they were simplified and to the point.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Emma

Company Name \*

New Ecology, Inc.

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Additional comments or words of advice for future test takers? \*

Make an exam binder with cheat sheets of your most-used equations, constants and conversions, broken out by subject. Make copies of important tables and charts and put them in there too. Not a bad idea to print out a copy of the indexes. Create the binder as you're studying and it will become a very quick and good reference.

---

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.

Engineering Pro Guides practice exam was a good additional practice exam. I found the real exam to be much different in terms of content than any of the practice exams, but I think that they prepared me as best they could.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Examinee

---

Company Name \*

--

---

Did you pass the PE exam? \*

Yes

No

Other: 

---

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

Passed

---

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

I used the MERM as my primary study reference. I read every chapter and worked every problem in the accompanying practice problems book. After completing the MERM, I began taking the practice tests published by NCEES and PPI. While taking those tests, I realized most of the MERM book was of no real benefit for passing the HVAC/R exam specifically. That is NOT to say the book was of no real benefit AT ALL; quite the opposite - most of the topics covered in the book that did not apply to HVAC/R will be very useful in other areas of my work. I am just pointing out that if the primary objective is to study for the HVAC/R exam as efficiently as possible, skipping 80%-ish of the MERM chapters and supplementing with a dedicated HVAC/R study reference would probably be the best route to take.

---



## What do you wish you practiced or studied more? \*

None. Without actually knowing my score, I feel like I performed quite well and that my studying was sufficient.

---

## Additional comments or words of advice for future test takers? \*

In order to save money, I considered not purchasing three of the four ASHRAE books (Applications, Systems and Equipment, and Refrigeration) and only bringing the Fundamentals book for the exam. I did not have the option of borrowing someone else's copy (free), so purchasing all four would be somewhat expensive. I held out for as long as I could on those three while studying but ultimately decided to order them about a month before the exam. \*\*\*These three books were definitely worth it!\*\*\* All four of the ASHRAE books were absolutely necessary for the exam, not just the Fundamentals.

---

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.

I purchased the HVAC/R study guide as a supplemental resource to the MERM. Having spent so much time studying the MERM (I am estimating 400-500 hours spread out over 6 months) and feeling confident after taking several practice tests, I decided not to dive in to the Engineering Pro Guide. Instead, I lightened my study load about a month prior to the exam and ultimately stopped studying altogether about 2 weeks later (this is a typical test-taking strategy of mine that has served me exceptionally well throughout my academic career: thorough studying well ahead of the exam followed by rest/relaxation to relieve the anxiety/stress). Having said that, the Engineering Pro Guide may have filled the role of the more focused HVAC/R study material that the MERM seemed to lack if I had chosen to actually use it.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Andrew

Company Name \*

MEP

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Study the ASHRAE books more. Don't read every word of the MERM, just skim and do problems.

---

### What do you wish you practiced or studied more? \*

ASHRAE books.

---

### Additional comments or words of advice for future test takers? \*

Always study more than you feel you should. I would rather study more and pass the first time then study less and have to take it again.

---

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.

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Scott Richter

Company Name \*

Stellar Refrigeration

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

A better list of the constants and pre-calculated conversion factors that were used in the NCEES practice test solutions. Took lots of reverse engineering to figure these out.

---

### What do you wish you practiced or studied more? \*

Pressure - Entropy diagrams

---

## Additional comments or words of advice for future test takers? \*

Begin your studying with the engineering pro guides from this site. They are well organized and explained without gaps that leave you hunting to prove the solutions. Once familiar with them, you will be able to more easily absorb the materials in the NCEES practice exam as well as the MERM practice.

---

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.

The engineering pro guides from this site were the single best study guide and reference for the test. I strongly suggest investing in the pro guides early in your studying and becoming very familiar with the formulas in them, that will get you most of the way there on the test!

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Blake

Company Name \*

NAVFAC Hawaii

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Exactly the difficulty of the exam questions.

### What do you wish you practiced or studied more? \*

Systems and Equipment, specifically Ammonia Refrigeration

## Additional comments or words of advice for future test takers? \*

Do as many NCEES Sample Exam questions as you can. Don't focus too hard on the 6 minute solutions or Lindburg Solved Questions. Organize your notes and tabs so YOU know where everything is and can quickly flip to it.

---

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.

Purchased the EPG Mechanical HVAC PE prep course with books. It was a very useful course that taught me everything I needed to pass and helped to guide me in what I needed to study effectively.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Edgar

Company Name \*

Huitt-Zollars

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Be familiar with content of ashrae handbooks in general where topics are.

### What do you wish you practiced or studied more? \*

ventilation, manometers/venturi meters, noise criteria method

## Additional comments or words of advice for future test takers? \*

If a question looks oddly specific or hard it's from the ashrae handbooks. Read through and thoroughly understand all HVAC sections of MERM.

---

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.

Mostly good although the chemistry formula problems are likely not going to be on the test.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Tyler

Company Name \*

HGS

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

I wish I would have worked the practice exams first to get an idea of how the questions were going to be asked, and that I had found Engineering Pro Guide sooner.

---

## What do you wish you practiced or studied more? \*

I should have worked more practice exams.

---

### Additional comments or words of advice for future test takers? \*

I took a prep course which did not have a practice exam and left me 2 weeks after the class before the exam to work practice exams. I needed at least a month to fully work through all of the practice exams I had in order to fully switch my brain to how NCEES asks questions, which were different than my prep course. I learned more in those last two weeks working exams and going through Engineering Pro Guides than in a majority of the prep course. Just be familiar with your material to decrease the amount of time needed for each problem in order to review over the entire test. I was able to have a full hour to look over both parts and carefully answer the tougher problems. I was able to have that hour because I repeatedly worked practice exams and got that 6 minutes down to about 3.5-4 minutes per problem. 70% of the problems are exactly what you have been studying. That other hour allowed me to tackle the remaining 30% that is off the wall questions that are either extremely specified or impossible to find in ASHRAE books. I focused on that 70% and was able to pass without having any ASHRAE books.

---

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.

The Engineering Pro Guides give you the exact information needed for the exam. The cheat sheets even had more information than my own and ended up allowing me to answer two easy problems that I would have otherwise had no idea to approach.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Angel

Company Name \*

Martin Sprocket & Gear, Inc

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: Lindeburg Practice Exam HVAC

### What do you wish you knew before you started studying? \*

I wish I knew personally some people who took the exam as reference.

### What do you wish you practiced or studied more? \*

I think I studied just the right amount

## Additional comments or words of advice for future test takers? \*

Practice as many problems as possible. Your engroguide was definitely very helpful as well as your practice exam. You simplified many of the concepts needed to understand the material.

---

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.

I liked how many of the concepts were explained in a very simplistic manner. The guide is very organized when it comes to material and introducing a new topic. I would definitely encourage future test takers to buy not only the engroguide but the practice exam as well. One thing that could be improved a bit would be the index. It's a bit difficult to use, however, it's not a dealbreaker. I would recommend to make the index just like the index in the MERM.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Zack

Company Name \*

-

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

49

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

What do you wish you knew before you started studying? \*

-

What do you wish you practiced or studied more? \*

Fundamentals, being able to quickly reference the ASHRAE handbooks

Additional comments or words of advice for future test takers? \*

-

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.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

radu

Company Name \*

rs

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

50/80

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

What do you wish you knew before you started studying? \*

to know better study materials  
\_\_\_\_\_

What do you wish you practiced or studied more? \*

yes  
\_\_\_\_\_

Additional comments or words of advice for future test takers? \*

pay attention to the units  
\_\_\_\_\_

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.

Engineering Pro Guide is very good

---

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Matthew

Company Name \*

CoolSys Energy Design

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

## Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

That the wait would be worse than the test itself.

---

## What do you wish you practiced or studied more? \*

Flow coefficients, which were almost completely ignored by both Eng Pro Guides, the NCEES practice exams, AND 6-minute solutions.

---

## Additional comments or words of advice for future test takers? \*

Read the question being asked. These questions are simpler than you think, and if you studied the appropriate amount of time then there should be no issues. There were some questions that sort of "came out of the blue" and thus were challenging, but for all the material that was covered, all of your answers can be found in your references.

---

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.

Great review for the core concepts of HVAC. I don't know what I got wrong, but I assume I got almost all of the concepts covered in your guides correct as I felt the most confident about those. (for example, I thought I got a 40/40 on the afternoon section.) I would personally cover some random topics that have come up over past exams (say, over the last 8 or so years) so that the examinees may be /aware/ that there is a possibility of these questions being on the exam. Again, I passed and I assume that is mostly because I aced the questions I did know, and the questions I didn't weren't enough to warrant me failing, but it would have made it a lot more comfortable walking out of the room if I hadn't felt blindsided by the several questions I had never seen before the exam itself.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Jennifer

Company Name \*

ADG Engineering

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

\_\_\_\_\_

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



### Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

Get to working the problems TIMED sooner.

---

### What do you wish you practiced or studied more? \*

Timing myself

---

## Additional comments or words of advice for future test takers? \*

Do not procrastinate - start studying as soon as possible and do not wait a long time after you graduate to take the test.

---

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.

I enjoyed the review. There were a couple of things that needed to be edited - formatting and I had duplicated pages in my book. I also think you could get more in depth on topics and have more examples.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

A survey that compares the pass rate to with your total number of study hours and references used during the exam.

Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Alex

Company Name \*

Private

Did you pass the PE exam? \*

Yes

No

Other: Got kicked out for possessing ear phones 3 hrs in to the morning session

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

N/A

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years

### Which references do you recommend for the exam? \*

Personal study notes and cheat sheets

NCEES sample exam

Engineering Pro Guides

MERM

ASHRAE Systems

ASHRAE Equipment

ASHRAE Refrigeration

ASHRAE Fundamentals

6 minute solutions

NFPA 90A/90B

Other: \_\_\_\_\_

### What do you wish you knew before you started studying? \*

I think I covered most of the topics.  
\_\_\_\_\_

### What do you wish you practiced or studied more? \*

I think I covered most of the topics.  
\_\_\_\_\_

### Additional comments or words of advice for future test takers? \*

Know the MERM in and out  
\_\_\_\_\_

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.

EngineeringPro Guides is one of the best materials to go over for the exam. I have covered everything on that reference before going in to the exam. I will also use it again for the April 2019 exam as I have to take it again. The only drawback is that the practice questions on the reference are much easier than the actual exam (Morning session), I can't say about the afternoon exam, as I was kicked out three hours in to the morning exam.

---

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# October 2018 - HVAC & Refrigeration PE Exam RESULTS Survey

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Just a friendly reminder, you cannot disclose the actual exam (problems or solutions).

First Name \*

Thomas

Company Name \*

BWA

Did you pass the PE exam? \*

Yes

No

Other: \_\_\_\_\_

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

46

How many hours did you study for the exam? \*

- 0 to 100 hours
- 101 to 200 hours
- 201 to 300 hours
- 301 to 400 hours
- 401 to 500 hours
- More than 500 hours

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

- Less than 2 years
- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years



## Which references do you recommend for the exam? \*

- Personal study notes and cheat sheets
- NCEES sample exam
- Engineering Pro Guides
- MERM
- ASHRAE Systems
- ASHRAE Equipment
- ASHRAE Refrigeration
- ASHRAE Fundamentals
- 6 minute solutions
- NFPA 90A/90B
- Other: \_\_\_\_\_

## What do you wish you knew before you started studying? \*

What to expect

---

## What do you wish you practiced or studied more? \*

Everything

---

## Additional comments or words of advice for future test takers? \*

Study

---

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.

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