Machine Design & Materials PE Exam Survey - October 2017

A survey that gauges your performance and compares this level with your total number of study hours and references used during the exam.

Did you pass the exam? *

☐ Yes
☐ No

If you did not pass, then what was your score out of 80?

Is this your first time taking the exam?

☐ Yes, this is my first time taking the PE exam.
☐ No. 2nd time.
☐ No. I have taken the exam more than 2 times.

How many hours did you study for this exam?

☐ 0 to 100 hours.
☐ 101 to 200 hours.
☐ 201 to 300 hours.
☐ 301 to 400 hours.
☐ 401 to 500 hours.
☐ More than 501 hours.
Which references would you recommend for the exam? *

- Personal study notes and cheat sheets.
- Engineering Pro Guides Materials & Website
- College Machine Design Book (Shigleys or similar)
- College Materials Book
- MERM
- 6 Minute Solutions - Practice Exam
- PPI Engineering Unit Conversions
- Machinery's Handbook
- EMJ Blue Book
- Roark
- Other: .................................................................

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

- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years
- Other: .................................................................
How confident are you in your performance on the AM exam? Guessing is defined as not knowing the exact answer (choosing between 2 or more of the solutions).

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What were your most confident topics? Select 3.

- [ ] Basic Engineering Practice
- [x] Engineering Science & Mechanics
- [x] Material Properties
- [x] Strength of Materials
- [ ] Vibration
- [ ] Mechanical Components
- [ ] Joints & Fasteners
- [ ] Supportive Knowledge

What were your least confident topics? Select 3.

- [ ] Basic Engineering Practice
- [ ] Engineering Science & Mechanics
- [ ] Material Properties
- [ ] Strength of Materials
- [x] Vibration
- [ ] Mechanical Components
- [x] Joints & Fasteners
- [x] Supportive Knowledge
Additional Comments? Words of advice?

Get Shigley and use it to supplement what you get out of MERM. What I mean by this is that if you are taking a practice exam and have to look up a topic in MERM because you haven't seen it in a long time, also read up in Shigley (or other relevant college textbooks) to get more depth. The MERM does a great job at covering a wide breadth of topics but falls short often on depth.
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Additional Comments? Words of advice?

Solve problems and then solve more problems. More specifically, work on problems in areas you are deficient in. 85-90% of study time should be dedicated to solving problems. The remaining 10-15% should be dedicated to reading/reviewing theory, tabbing references, compiling notes, etc. Be engaged during study time. Your attention should not be divided. Do not merely look at solutions and expect that you will be able to replicate the procedure during the actual test. Remember you are being tested on your knowledge of practical engineering concepts. Put in the time, and you will pass.
Machine Design & Materials PE Exam Survey - October 2017

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Did you pass the exam? *

- Yes
- No

If you did not pass, then what was your score out of 80?

46

Is this your first time taking the exam?

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- No. 2nd time.
- No. I have taken the exam more than 2 times.

How many hours did you study for this exam?

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Additional Comments? Words of advice?

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Additional Comments? Words of advice?

Shigley, MERM and unit conversions. Good tabs and that's all
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- Roark
- Other: Mechanical PE Exam Review: Machine Design and Materials, Timothy Kennedy

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Additional Comments? Words of advice?

The hardest part of the test is the time after the test and before the results. Just relax and know you did your best.

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☐ Material Properties
☑ Strength of Materials
☐ Vibration
☐ Mechanical Components
☑ Joints & Fasteners
☑ Supportive Knowledge

Additional Comments? Words of advice?
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Google Forms
Machine Design & Materials PE Exam Survey - October 2017

A survey that gauges your performance and compares this level with your total number of study hours and references used during the exam.

Did you pass the exam? *

- Yes
- No

If you did not pass, then what was your score out of 80?

Is this your first time taking the exam?

- Yes, this is my first time taking the PE exam.
- No. 2nd time.
- No. I have taken the exam more than 2 times.

How many hours did you study for this exam?

- 0 to 100 hours.
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- College Machine Design Book (Shigleys or similar)
- College Materials Book
- MERM
- 6 Minute Solutions - Practice Exam
- PPI Engineering Unit Conversions
- Machinery's Handbook
- EMJ Blue Book
- Roark
- Other: Shigley

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

- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
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- Other: 
How confident are you in your performance on the AM exam? Guessing is defined as not knowing the exact answer (choosing between 2 or more of the solutions).

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What were your most confident topics? Select 3.

- [ ] Basic Engineering Practice
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What were your least confident topics? Select 3.

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Additional Comments? Words of advice?

The Mechanical Engineering Reference Manuel and NCEES Reference Manuel were my biggest resources on exam day. The 6MS and NCEES practice exams were helpful on a few of the exam problems. I recommend reviewing the test problems before solving for timing purposes. I finished each section with 15+ mins left. I would also recommend saving time to review problems with unit conversions.... noticed and corrected a few errors.
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- EMJ Blue Book
- Roark
- Other: Technical Dictionary

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Additional Comments? Words of advice?

A good portion of your preparation should be spent organizing your reference material to be able to answer questions in an average of 6 minutes each. During the test if you reach a question that seems difficult or that will take a long time skip it and come back at the end.
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- Roark
- Other: Dr. Timothy Kennedy's review for MDM exam

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

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What were your most confident topics? Select 3.

- Basic Engineering Practice
- Engineering Science & Mechanics
- Material Properties
- Strength of Materials
- Vibration
- Mechanical Components
- Joints & Fasteners
- Supportive Knowledge

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Machine Design & Materials PE Exam Survey - October 2017

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Did you pass the exam? *

- Yes
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If you did not pass, then what was your score out of 80?

Is this your first time taking the exam?

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Additional Comments? Words of advice?

Buy the NCEES practice exam and work it over and over again until you grasp the concepts and know where to look for formulas in the MERM.

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Additional Comments? Words of advice?

Scored 93%. Doubted myself 2 days after exam. Study study study. 6 min soln. And ncees practice exam better than Lindbergh problems to prepare.
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- [x] Other: timothy kennedys PE: Machine Design Review

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- Personal study notes and cheat sheets.
- Engineering Pro Guides Materials & Website
- College Machine Design Book (Shigley's or similar)
- College Materials Book
- MERM
- 6 Minute Solutions - Practice Exam
- PPI Engineering Unit Conversions
- Machinery's Handbook
- EMJ Blue Book
- Roark
- Other: __________________________

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

- 2 to 3 years
- 3 to 4 years
- 4 to 5 years
- More than 5 years
- Other: __________________________
How confident are you in your performance on the AM exam? Guessing is defined as not knowing the exact answer (choosing between 2 or more of the solutions).

- Extremely confident (I feel that I knew the correct answers to nearly all of the questions and guessed on less than 5 questions).
- Very confident (I feel that I knew the correct answers to most of the questions and guessed on not more than 10 questions).
- Confident (I feel confident that I guessed on not more than 15 questions).
- Not as confident (I guessed on more than 15 questions).

How confident are you in your performance on the PM exam? Guessing is defined as not knowing the exact answer (choosing between 2 or more of the solutions).

- Extremely confident (I feel that I knew the correct answers to nearly all of the questions and guessed on less than 5 questions).
- Very confident (I feel that I knew the correct answers to most of the questions and guessed on not more than 10 questions).
- Confident (I feel confident that I guessed on not more than 15 questions).
- Not as confident (I guessed on more than 15 questions).
What were your most confident topics? Select 3.

- [ ] Basic Engineering Practice
- [ ] Engineering Science & Mechanics
- [ ] Material Properties
- [ ] Strength of Materials
- [x] Vibration
- [ ] Mechanical Components
- [ ] Joints & Fasteners
- [ ] Supportive Knowledge

What were your least confident topics? Select 3.

- [ ] Basic Engineering Practice
- [ ] Engineering Science & Mechanics
- [ ] Material Properties
- [ ] Strength of Materials
- [x] Vibration
- [ ] Mechanical Components
- [ ] Joints & Fasteners
- [ ] Supportive Knowledge

Additional Comments? Words of advice?
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