

Entrance Exam Content Definitions & Study Guide Resources

Match the section numbers with the corresponding definitions below. You will only be tested on the section numbers listed next to the program of your choice.

Automotive Technology-Sections 1, 2 & 8

Business Technology and Accounting-Sections 7, 8, 9 & 10

Electrical Technology-Sections 1, 2, 3, 4, 5 & 8

Heating, Ventilation, Air Conditioning & Refrigeration Technology-Sections 1, 2, 6, & 8

Information Technology & Communication Systems-Sections 1, 2, 3, 5, 6 & 8

Instrumentation & Industrial Automation-Sections 1, 2, 3, 4, 5 & 8

Legal Assistant/Paralegal-Sections 7, 8, 9 & 10

Machine Technology-Sections 1, 2 & 8

Medical Office Administration & Coding-Section 7, 8, 9 & 10

Welding Technology- Sections 1, 2 & 8

- 1 **General Classifications**-Fractions, percentages, cube counting, word definitions, drawing recognition, and reading measurements.
Fractions: <http://www.sparknotes.com/math/prealgebra/fractions/section2.rhtml>
Basic math and story problems: <http://www.testprepreview.com/modules/mathematics1.htm>
Percentages: <http://www.sparknotes.com/math/prealgebra/percents/section2.rhtml>
Wiesen, Joel P., Barron's "How to prepare for Mechanical Aptitude & Spatial Relations Test" Chapter 15
- 2 **Mechanical Comprehension**-Force, gravity, gears, pulleys, levers and weight distribution.
The laws of physics: <http://www.sparknotes.com/physics/>
Wiesen, Joel P., Barron's "How to prepare for Mechanical Aptitude & Spatial Relations Test" Chapters 3, 4 & 5
- 3 **Numerical Progression**-A progression of numbers by either addition, multiplication, subtraction or division.
Quiz and answer guide: <http://www.funtrivia.com/playquiz/quiz504975cab80.html>
Explanation of numerical progression: <http://www.purplemath.com/modules/nextnumb.htm>
- 4 **Pattern Recognition**-Spatial views-top, front and sides. Shapes and objects, matching parts and
Wiesen, Joel P., Barron's "How to prepare for Mechanical Aptitude & Spatial Relations Test" Chapters 9-12.
- 5 **Pre-Algebra/Algebra 1**-Fractions, division, multiplication, subtraction, solve for x, multiplying power, FOIL method, simplifying, averages, percentages, Electrical Laws: $E=IxR$ & $P=IxE$ Solve, Distance=Rate (Time)
Order of operations: <http://www.sparknotes.com/math/#algebra1>
- 6 **Color Identification Test**-Identify several different colors on wire strands.
- 7 **Language Usage Skills**-Timed (20 minutes)-Sentence structure, grammar, punctuation and spelling.
Quiz and answer: <http://www.testprepreview.com/modules/grammarpart1.htm>
<http://www.testprepreview.com/modules/commas.htm>
- 8 **Reading Comprehension Skills**-Timed (30 minutes)-Word recognition, vocabulary analysis and content comprehension.
Quiz and answer: <http://www.testprepreview.com/modules/reading1.htm>
- 9 **Numerical Skills**-Timed (30 minutes)-Addition, subtraction, multiplication, division, fractions, story problems, decimals and percentages.
Quiz and answer: <http://www.testprepreview.com/modules.mathematics1.htm>
- 10 **Computer Typing Test**-Applicant is allowed an unlimited number of attempts to reach 20 words per

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minute with no errors

<http://www.typeracer.com>