Maintenance technicians use mathematics everyday while installing, maintaining, and troubleshooting equipment. Mathematics for Technicians 2 (BA01B), the second course in a two-course series, conveys skills-based math curriculum through LearnMate™, intelitek's innovative e-learning platform. Through nine virtual activities, students obtain advanced math skills needed for working in an industrial environment.

Mathematics for Technicians 2 (BA01B) applies advanced mathematics concepts to everyday tasks performed by technicians. Through interactive activities, delivered entirely online, students learn about drive ratios, Ohm's Law, mechanical principles, and more, with an emphasis on the application in the industrial maintenance and advanced manufacturing field.

Core concepts are taught through self-paced e-learning curriculum. All the necessary resources, including printable instructions, are available online, ready for use in the classroom.

JobMaster™ trainees can be confident they will possess the skills needed for success in automated manufacturing careers!

intelitek’s partners in development of the curriculum include twelve major US industrial companies, including Boeing, Caterpillar, Ford, GE, and US Steel.

JobMaster™, the new standard in industrial maintenance and mechatronics training!
Mathematics for Technicians 2 (BA01B)

Materials Included

Order #14-BA01B

- Mathematics for Technicians 2 E-Learning Curriculum

Prerequisite courses

- Mathematics for Technicians 1 (BA01A)  Order #14-BA01A

Skills Acquired

Skill 1: Working with Conversion Formulas
Skill 2: Applying Mechanical Principles
Skill 3: Calculating Drive Ratios
Skill 4: Calculating Speed Reducer Service Factor
Skill 5: Using Ohm’s Law in Series and Parallel Circuits
Skill 6: Converting Binary, Binary Coded Decimal (BCD), Hexadecimal and Decimal Numbers
Skill 7: Calculating Pressure, Force, Head and Flow
Skill 8: Calculating Shim Requirements
Skill 9: Selecting Pipe Size

The Foundations Program includes:

- Employability Skills
- Introduction to Advanced Manufacturing
- Industrial Safety: Lockout/Tagout
- Blueprint Reading

- Mechanical Measurement and Quality Control
- Lubrication for Technicians
- Power Tools
- Mechanical Training Bench

and more!

Mathematics for Technicians 2 (BA01B) is part of the Foundations Program, which teaches the job-ready skills essential for career success.

Foundations courses focus on the critical skills for entrants to the workforce including safety, applied math and employability.

The Foundation Program ensures students are workforce-ready; the foundation of success for tomorrow’s skilled workforce!

Foundations courses form an excellent basis for a wide range of STEM programs. Add virtual, hardware-based or blended learning labs to deliver a comprehensive Advanced Manufacturing, Mechatronics and Industrial Maintenance program.

Make Mathematics for Technicians 2 (BA01B) part of a comprehensive STEM program!

Affiliated with:

- AMT
- SkillsUSA
- NTMA

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