

## **Applied Mathematics: Mathematics for Machine Technology**

### **Module 2: Multiplying/Dividing Fractions & Mixed Numbers – 4 Hrs**

Most measurements and calculations made by a machinist are not limited to whole numbers. Dimensions are sometimes given as fractions and some measuring tools are graduated in fractions. This course focuses on the multiplication and division of fractions and mixed numbers.

#### **Course Topics Include:**

1. Multiplication of Common Fractions and Mixed Numbers
  - a. Multiplying Fractions
  - b. Dividing by Common Factors (cancellation)
  - c. Multiplying Mixed Numbers
  - d. Practical application involving parts and industrial solutions
2. Division of Common Fractions and Mixed Numbers
  - a. Dividing Fractions as the Inverse of Multiplying Fractions
  - b. Dividing Mixed Numbers
  - c. Practical Application involving parts with hole patterns, industrial word problems, Pitch/Lead calculations

**Who Should Attend:** The machinist, machine operator, tool setter, welder, and others in manufacturing who must be able to make calculations and measure in fractions.

**ETI Instructor Paul Montgomery** has more than 30 years' experience in manufacturing, specializing in CNC mill and lathe programming, set-up and operation, CAM programming, CAD design with SolidWorks and CATIA, manual machining in a prototype/tool making capacity with expert level on all manual engine lathes and other related machining equipment and tools. In addition, Paul is an experienced instructor and has been manager of training and development for a major aerospace manufacturing company. Paul continues to create and deliver engaging and effective training programs in most machining topics.

**Course Cost: \$125.00**

#### **WHEN:**

**Wednesday  
July 16, 2025  
5:00 pm – 9:00 pm**

#### **WHERE:**

**College of the Canyons - Room TBA  
26455 Rockwell Canyon Road  
Santa Clarita**

**For more information or to register, please contact:**  
**Jocey Hogan, ETI Program Coordinator at 661.362.5657 or [jocey.hogan@canyons.edu](mailto:jocey.hogan@canyons.edu)**