

**TECHNICAL FUNDAMENTALS SERIES**

**Industry Basics Specific**

***Courses are designed to develop an understanding of the practical and technical skills required by industry. Trainees are taught using the company’s blueprints and gauges. Each course consists of 6-12 hours of instruction customized to meet a company’s specific training needs.***

**Industry Math**

* Focused on skills-specific mathematical concepts relative to the industrial environment
* Training covers principles and applications of:
  + Addition, Subtraction, Multiplication & Division
  + Coordination of systems & Triangulation
  + Percentages, Proportions, Parts & Decimals
  + Production, Efficiency, Metric Systems & Terminology

**Quality Control**

* Focused on design and use of common gauges and applying statistical process control concepts
* Training covers principles and applications of:
  + Inspections, Gauge Methods, Special Gauge Designs & Production Gauges
  + Inspections & Statistical Process Control Concepts

**Blueprint Reading**

* Designed for those who have none to very little experience with computers
* Focused on interpretation of basic blueprints and visualization of the features of a part
* Training covers basic principles of:
  + Blueprint Reading (actual company blueprints used)
  + Line Types, Orthographic Projections, Dimensioning Methods & Notes

**Safety Training Industrial/Environmental Health & Safety**

* Focused on demonstration of knowledge of safe working environment, basic concepts of environmental health and safety & OSHA compliance
* Training covers:
  + Introduction of Principles of Environmental Health, Industrial Safety & OSHA Compliance
  + Safety Concepts, Regulations & Prevention of Accidents, Injuries & Illnesses

**Geometric Dimensioning and Tolerance (GD & T)**

* Focused on ability to interpret and apply basic geometric dimensioning & tolerance principles
* Training covers:
  + Introduction of Basic Geometric Dimensioning, Tolerance Principles & Quality Application
  + Drawing and Tolerance, Bilateral and Unilateral Tolerances & Tolerance Applications
  + Gauging Dimensions, Symbols & Terms
  + Datums, Forms, Orientation Controls, Tolerance of Position, Concentricity, Symmetry, Runout & Profile Controls
  + Measurement for Quality Assurance, Measurement with Graduated Scales, Measurement by Comparison
  + Scale Instruments, Micrometer Instruments & Gauge Blocks

***For additional information, contact:***

***Louis Judge, Assistant Vice President, Corporate Education & Economic Development***

***336- 506-4207*** [***louis.judge@alamancecc.edu***](mailto:louis.judge@alamancecc.edu)

***Sheila Bissette, Administrative Assistant 336-506-4151*** [***sheila.bissette@alamancecc.edu***](mailto:sheila.bissette@alamancecc.edu)