

Industrial Manufacturing Readiness

Industrial Manufacturing Readiness Certificate

The Certificate program delivers foundational skill sets to students who are interested in entering an apprenticeship or other employer-sponsored industrial training programs. The successful completion of this certificate indicates to prospective employer sponsors that the student has the aptitude necessary to undertake the rigors of such a training program, and will also help candidates prepare for a potential program entrance exam. A student must complete all courses - Shop Math, Machine Tool Blueprint Reading, Industrial Safety Skilled Trades, and Trade Related Preparation.

48 Hours, 24 Sessions, Instructed by Bradley Junker



Shop Arithmetic - Mathematics

Review of basic arithmetic, whole numbers, fractions, decimals, signed numbers, grouping symbols, square root, ratio and proportion, flat and round tapers, simple and complex gear ratios. Practical industrial shop problems are employed.

Industrial Safety - Skilled Trades

Encompasses safety/health rules, procedures, safety responsibilities, and hazard recognition associated with the following: lockouts, machine tools, machine guarding, hand tools, portable power tools, safe use of energy sources, powered trucks, material handling, hazardous materials, lifting, climbing, ladders, scaffolds, rigging, slings, ropes, cranes, hoists and basic fire safety. Accident causation, impact, prevention, and basic human anatomy and physiology will be studied.

Machine Tool Blueprint Reading

An introduction to blueprint reading, interpretation of various kinds of lines, position of views, symbols, conventions, dimensioning practices, sectioning, auxiliary views and symmetry with emphasis on techniques employed to show details in relation to assembly drawing.

Trade Related Preparation

Preparation for a career in the trades is assessed through an overview of industrial processes. A review of math, blueprint reading, and measuring tools relative to shop application are major components of this course. Students receive diagnostic evaluation through testing in these major areas.