



M-Powered Level I Manufacturing Fundamentals

Level I, totals 180 hours, providing students with a solid knowledge base in manufacturing fundamentals. Topics covered include:

- Blueprint reading
- Math
 - fractions, proportions, percent, geometry, trigonometry
- Basic sciences
- Basic QC practices
 - hand measuring tools, gages, steel rulers
- Basic quality management
 - ISO 9001-2008, 13485, FDA, GMP, CA/PA, calibration
- Metallurgy and Met cut book
 - Machine harmonics, problem solving
- GD&T
- Intro to CMM and optical measuring
 - Surface finish, tool scope
- Intro to statistics, process control, charting, CPK
- Cleanroom operations
- Safety OSHA hazards
 - Lockout tagout, machine guarding, blood born pathogens
- CAD systems, CAM systems ERP introduction
- Computers
 - Manufacturing, Word/Excel

*M-Powered Program, a joint effort between Hennepin Technical College & HIRED, is funded by the US Department of Labor
Hennepin Technical College, an affirmative action, equal opportunity employer and educator.*

M-Powered has Veteran preference of admission.

For more information, please visit: www.m-powered.info