

MSI

MANUFACTURING
SKILLS INSTITUTE



Opportunity

The manufacturing sector's statewide average annual salary is \$53,461*. Additionally, three main factors are affecting supply of skilled workers: increasing technology-intensive nature of manufacturing; retirements; and, competition for talent. This translates into thousands of job openings without qualified candidates to fill them.

Overview

M2M offers world-class career resources to help veterans start a private sector career in advanced technology industries such as manufacturing. The M2M career pathway helps recently separated veterans to convert past military experience and training into industry-recognized credentials and access job opportunities. M2M is a military transition training program, using the Manufacturing Technician Level 1 (MT1) Certificate Program to help document manufacturing work readiness.

M2M program participation does not guarantee employment upon program completion.

*Virginia Employment Commission 2011 data

Military2Manufacturing

*Connecting veterans and military spouses
with world-class skills and jobs.*

www.military2manufacturing.org

Training Approach

The M2M program will assess, train and certify veterans and military spouses on core MT1 and National Career Readiness Certificate competencies so that they have the foundational skills to pursue career pathways leading to employment in the manufacturing sector.

The MT1 Certificate Program is a highly customized sequence of courses based on the techniques and interrelationships found in high performance manufacturing and production. Instruction focuses on the critical actions, knowledge, systems, and processes necessary to succeed in an advanced manufacturing enterprise. The core areas of skill measurement and focus are: math and measurement; quality and continuous improvement practices; and, advanced manufacturing processes and production.

Training Scholarships may be available based upon participant eligibility for various grants received by the MSI. To find out, please contact the MSI.

Integrated Career Resources

The *Dream it. Do it. Virginia* career information system translates past military experience into civilian occupational information. Users explore, assess and inventory occupations that have the best fit depending on customizable criteria such as: interests, employment outlook, earnings, education, skill requirements and job availability. Users create a "portfolio" that saves specific job searches, resumes and related occupational analysis so that military transition plans are constantly updated. This is a highly customizable resource for exploring everything from occupations to training in a multi-media environment where the M2M participant has 24-7 access to his or her own password protected profile to make researching career information enjoyable.

www.dreamitdoitvirginia.com

Manufacturing Technician Level 1 Certificate Program

Endorsed by the National Association for Manufacturers

MT1 Certification

The MT1 Certification is a portable and stackable industry credential that demonstrates to employers anywhere in the world that an individual has an understanding of modern manufacturing and attained mastery of the following industry-wide critical technical skills: Algebra; Measurement; Math for Quality; Statistical Process Controls; Spatial Reasoning; Mechanics; Fluid Power and Thermodynamics; Electricity; Chemistry; Manufacturing Processes and Controls; Quality and Lean Manufacturing; and, Financial Literacy and Business Acumen.

MT1 Training

MT training is available in two formats: (1) Online Learning Lab™ via cloud-based MSI eLearning Network that is password protected and accessible 24/7, and (2) blended Online Learning Lab™ and Instructor-led Action Learning Lab™ training customized to an individual's skills development needs based upon the MT1 assessment. NOTE: Online Learning Lab requires Users to download Adobe Shockwave Player.

Math and Measurement Modules (eLearning) - These courses will assist the student in learning how to evaluate basic algebraic expressions and utilize industry tools to accurately measure critical process variables. The student will also learn how to apply mathematical formulas to convert units and develop mathematical relationships to solve for one unknown. In addition, these courses will assist the student in learning how to utilize process data to generate charts and graphs.

Spatial Reasoning and Manufacturing Technology Modules (eLearning) - These courses will expose the student to the critical areas of manufacturing and the applied technology principals that support the process. The module includes courses on: spatial reasoning, mechanics, fluid power and thermodynamics, electricity, chemistry, and manufacturing processes & controls.

Quality and Business Acumen Modules (eLearning)- These courses are designed to describe the critical elements of developing a lean culture in manufacturing. Upon completion of these courses the student will be able to apply a scientific problem solving method in addressing constraints in manufacturing and as well as identify continuous improvement opportunities leading to bottom-line savings.

MT1 Course Outline (Instructor-led)

MT1 Action Learning Lab Course Outline:

MT1 Pre-Assessment

Module 1: Overview of Manufacturing/Math Review

Module 2: Teamwork & Workplace Behaviors

Module 3: Mechanics & Spatial Reasoning

Module 4: Thermo & Fluid Dynamics

Module 5: Electricity I

Module 6: Electricity II

Module 7: Controls

Module 8: Business Acumen

Module 9: Chemistry

Module 10: Quality & Math for Quality

MT1 Post-Assessment

Customized Training

MT1 training courses are modularized and can be customized to meet an individual's specific training needs. In addition, individuals may also take additional training offered by the Manufacturing Skills Institute: World Class Manufacturing, Certified Industrial Energy Auditor, Industrial Safety, and much more.

For More Information:

Dr. Victor Gray, Executive Director

804-655-2355

vgray@vamanufacturers.com

