Metrology Education Program

Software
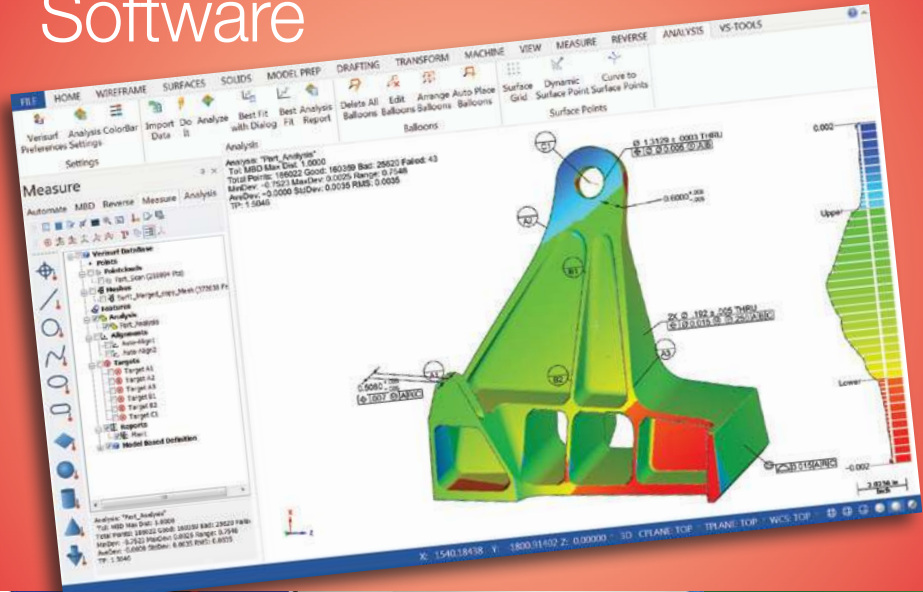
Hardware

Training

Curriculum

VERISURF® PROGRAM

Verisurf Brings it all Together
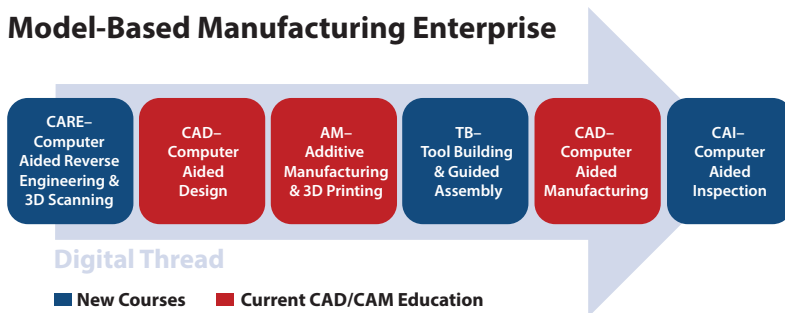
VERISURF®
3D Measurement Solutions

Teaching the Next Generation of Metrologists in

Verisurf Software is committed to help educate tomorrow's manufacturing leaders in the use of Model-Based Definition (MBD) for design, manufacturing, inspection and quality reporting—closing the loop on practical digital work-flow and maintaining the digital thread.

Working alongside educators, industry professionals and some of the best subject matter experts in the field of metrology, Verisurf has developed a comprehensive education program designed to provide students with the skills required for jobs in dimensional metrology.

Model-Based Manufacturing Enterprise

CARE– Computer Aided Reverse Engineering & 3D Scanning	CAD– Computer Aided Design	AM– Additive Manufacturing & 3D Printing	TB– Tool Building & Guided Assembly	CAD– Computer Aided Manufacturing	CAI– Computer Aided Inspection

Digital Thread

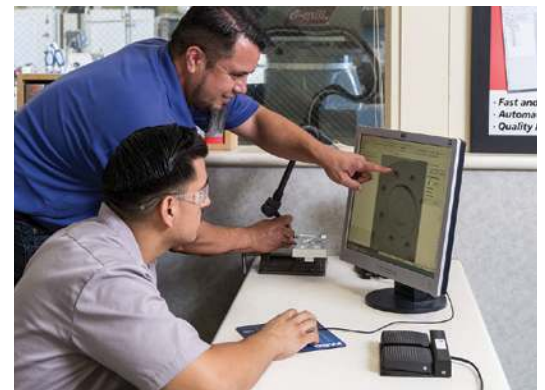■ New Courses   ■ Current CAD/CAM Education

COMPLETE EDUCATION PROGRAM

- Verisurf Metrology Software
- Measuring Device Hardware
- Coursework Curriculum
- Instructor Training Program

LOGICAL EXTENSION TO CAD/CAM

Verisurf Education Solutions complement existing CAD/CAM courses, while expanding the process of digital work-flow:

- Quality Inspection and Reporting
- Reverse Engineering and 3D Scanning
- Tool Building and Guided Assembly

FLEXIBLE SOFTWARE FOR EDUCATION

Verisurf Software for Education is available in flexible configurations to support multiple teaching environments, including online video courses with integrated testing:

- **Verisurf Network Lab–** Designed for classroom lab environment

- **Verisurf Individual–** Supports individual students in a device connected shop environment

- **Verisurf Home Learning–** Ideal for individual home study

LIVE TRAINING FOR EDUCATORS

Educator training is taught by experienced dimensional metrology experts skilled in Verisurf Software, Coordinate Measuring Machines (CMMs) and a wide variety of 3D measurement applications.

ONLINE TRAINING FOR EVERYONE

Teachers, Students and Customers can Train, Access and Certify their knowledge through the Verisurf online training system, available 24/7.

VERISURF EDUCATION COURSEWORK

Verisurf education curriculum is designed to provide students with learning progression, starting with an introduction to dimensional metrology, through advanced tool building.

Computer Aided Inspection Using Verisurf

Curriculum includes syllabus, workbook, glossary, lesson plans, exams, and training aids consisting of projects and exercises for 18-week, 36-hour coursework. The coursework includes basic dimensional metrology concepts for inspection and quality assurance reporting using 3D measurement software and portable coordinate measuring machine. Workbook and other course material delivered in printed and digital formats.

Advanced Computer Aided Inspection

Curriculum includes syllabus, workbook glossary, lesson plans, exams, and training aids consisting of projects and exercises for 18-week, 36-hour coursework. The coursework includes advanced dimensional metrology concepts for inspection and quality assurance reporting using 3D measurement software and portable coordinate measuring machine. Workbook and other course material delivered in printed and digital formats.

Computer Aided Tool Building

Curriculum includes syllabus, workbook, glossary, lesson plans, exams, and training aids consisting of projects and exercises for 18-week, 36-hour coursework. The coursework includes advanced dimensional metrology concepts for tool guided assembly, tool building and quality assurance reporting using 3D measurement software and portable coordinate measuring machine. Workbook and other course material delivered in printed and digital formats.

VERISURF HARDWARE SOLUTIONS FOR EDUCATION

Verisurf has evaluated and selected Coordinate Measuring Machines (CMMs) specifically for classroom and shop floor safety, reliability, ruggedness, precision, portability and price.

3DGage

Master3DGage with Scanner

CMM Master

Verisurf Software

Verisurf Software is made up of integrated application modules, each with specialized functionality. When used in combination, the modules provide powerful measurement solutions that improve quality, productivity and efficiency within manufacturing design build processes. The Verisurf Software package for education includes:

VERISURF CAD

Model-Based CAD module is the foundation of all Verisurf Solutions providing powerful editing tools, connectivity with virtually all digital measuring devices and open platform compatibility with virtually all CAD file formats.

AUTOMATE

AUTOMATE quickly and easily programs and operates all types and brands of CMMs, including legacy machines. AUTOMATE inspection routines can be used with all types and brands of stationary and portable CMMs.
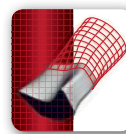
MEASURE

MEASURE provides a complete set of simple yet flexible tools to measure, solve and report feature results, either from CAD models or blueprints, using any 3D measuring device.

ANALYSIS

ANALYSIS connects with all CAD source data and quickly verifies part tolerance by comparing measured points to nominal features in the CAD model.

REVERSE

REVERSE is a complete Reverse Engineering (RE) solution to create CAD models from measured parts including, recreating CAD models for complete parts or features and capturing complex surface profiles.
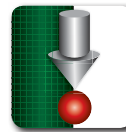
BUILD

BUILD uses real-time feedback from the CAD model as a guide to position moveable tooling details to their nominal position. BUILD uses the same data for model-based in section of assemblies and machined parts.

MAINTENANCE & SUPPORT

Verisurf provides annual maintenance and support agreements to keep customers up to date with the very latest in software releases and technical support. As metrology hardware devices, software and best practices continue to evolve, so do supporting software drivers, patches, firmware and the need to be kept up to date. Schools under maintenance agreement allow teachers to have direct access to Verisurf software engineers who are ready to solve any problems that might arise.

- Software Updates
- Application Best Practices
- Technical Support
- Trouble Shooting

VERISURF

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