

PTSA SHORT COURSE Vericut Machine Simulation

[PTSA 04.020]

Course description and information

The course is based on Vericut software by CGTech which is used for verification, simulation and optimization of NC programs prior to them being run on the actual CNC machine tool.

Objectives

The objective of the course is to teach learners the functionality of the Vericut software related to verification, simulation and optimisation.

<p>Course duration</p> <p>3 Full days at a regional PtSA Centre of Excellence</p>	<p>Cost</p> <p>*R 7 575 (excl VAT) per attendee Subject to group minimum size</p>
--	--

**All required learning material and access to the relevant software during the course is included in the price.*

Registration

Participants should register through the relevant PtSA (Production Technologies Association of South Africa) Regional Centre of Excellence offering the course. See www.ptsa.co.za for contact information.

Course content

- Introduction to a VERICUT simulation
- Monitor VERICUT simulation
- Find and Detect Errors
- Measure Features with X-Caliper
- Compare Cut Part to Design with AUTODIFF
- Day 1 Review Session
- Importing Fixture, Stock and Design Models
- Create Coordinate Systems
- Move and Locate Models
- Add NC Programs and define Work Offset
- Create a Tool Library
- Create a Tool Library using STEP Assemblies
- Using MDI to Validate Part Setup
- Cut Stock Transition between Setups
- Day 2 Review Session
- Create a Project Template
- Generate Reports
- Introduction to OptiPath
- Introduction to Force

Outcomes/Understanding/Theory

- Fundamentals of Vericut software
- Monitor Vericut simulation
- Find & detect errors
- Measure geometrical features
- Compare the cut part to the design
- Import fixtures, stock & design models
- Create coordinate systems
- Move and locate models
- Add NC programs & create work offsets
- Create a tool library
- Validate a part setup
- Cut stock transitions
- OptiPath

Assessment

Completed theory and practical exam based on the manual with a minimum pass mark of 60%.

Training manual

VERICUT Training Sessions, VERICUT Verification VERICUT 8.0.