



Hands-on Workshop on Force Calibration and Measurement

March 11th & 12th, 2025



Tovey Engineering will be presenting a 2-Day Workshop and Short Course on Force Calibration and Measurement, March 11th & 12th, 2025 at their headquarters and manufacturing facilities in Phoenix, AZ.

This is an in-depth workshop on force calibration intended for calibration engineers and technicians, force transducer and load cell users, and managers tasked with evaluating force measurement programs, certifying in-house calibration results, or applying ASTM or ISO standards.

The Workshop covers best practices in force calibration and compliance with ASTM E74, ASTM E4, and ISO 376. A review of torque transducers and torque calibration will be presented.

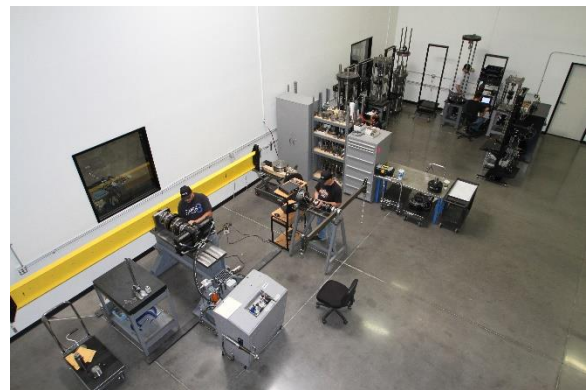
The Workshop also includes principles of load cell design and manufacturing - including a company tour, hands-on practice with Tovey Engineering force calibration systems - including dead weight and transfer standard systems,

review of performance characteristics, parasitic forces, temperature effects, fixture issues, measurement uncertainty and more.

Course participants will receive lecture materials, two catered lunches, a welcome reception and personalized company tour of Tovey Engineering **and a complimentary license of Tovey Engineering's Calibration processing software module (a \$1000 value).**

At the completion of the course, participants should have a thorough understanding of force calibration and be able to get better results in their in-house test and measurement programs.

Class size is limited.



Section of Force Calibration Laboratory

Price

2-Day Short Course on Force Calibration and Measurement: \$1,095

Early-Bird Price for attendees who pay before Feb 1st, 2025: \$995.00

See also: *"Payment Information,"* below.

What to Expect

- A unique learning experience conducted by experts in the field.
- An informal atmosphere with time for breakout discussions and Q&A.

What Participants Will Learn

- Understanding Force Calibration at the metrology level.
- Principals of force transducers, how to select a force transducer for a given application.
- Practical information to help you get better results in company calibration and measurement programs.
- A complimentary license of Tovey Engineering's Calibration processing software module and *Certificate of Completion*.

Who Should Attend?

- Calibration engineers and technicians
- Force transducer and load cell users
- Managers tasked with evaluating force measurement programs, certifying in-house results, or applying ASTM or ISO Standards
- Anyone interested in updating or advancing their knowledge on force or torque measurement at the metrology lab level

Location

The course will be held at the main offices of Tovey Engineering.

Address: Tovey Engineering,
1619 W. Knudsen Dr.
Phoenix, AZ 85027
Phone: (623) 434-5110



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About Tovey Engineering

Tovey Engineering is a vertically integrated manufacturing firm specializing in high performance load cells for force metrology, material testing, and industrial applications. We offer NIST NVLAP-accredited calibrations, calibration systems and products, and in-house design services.

Tovey Engineering offers accredited force transducer calibrations from 1 gf to 1 million lbf and primary torque calibration to 100,000 in-lbf.

State of the art calibration facilities include deadweight and servo-controlled hydraulic transfer standard calibration rigs. Force calibrations are performed in compliance with ISO 17025 requirements (accredited by NIST NVLAP Lab Code 200662-0).

Comments from Previous Attendees

"Having seen the metrology practices in half a dozen labs, I think many people could benefit from learning about industry best practices from a course like the one you held."

"Fantastic opportunity. It was great to get this information from a leading industry expert."

Payment

Payment in advance is required or purchase order accepted with approved credit. Cancellations accepted up to 7 days before the start of the course with full refund. Within 7 days of the course, no cancellations can be accepted.

For payment or additional information contact Joanne Lowry (623) 434-5110 ext. 101
joanelowry@toveyengineering.com

Registration

To receive registration materials online, go to the Tovey Engineering web site:
www.toveyengineering.com/workshop