

Alignment Assessment Services

Instron engineers have worked directly with Nadcap and ASTM to understand the requirements for materials testing system alignment and we have developed and established alignment assessment services complying with the guidelines and calculations detailed within ASTM E1012 and by Nadcap.

We offer a wide range of alignment assessment services conforming to the requirements of:

- ASTM E1012 requirements and calculations for assessing test frame and specimen alignment
- Nadcap AC7101 General requirements for Material Testing Laboratories and audit criteria for mechanical testing.
- Nadcap AC7122 criteria for non-metallic materials
- Nadcap AC7109 criteria for coating evaluations

The above standards and criteria for materials testing system alignment address a comprehensive range of materials testing applications, including metals, plastics, composites, coatings and bonding. Whether your test laboratory is engaged in raw material manufacturing, component manufacturing or independent testing services, Instron can provide you with the support, services and application expertise needed to help you address the materials testing system's alignment requirements for your business.



Alignment assessment of your system's load train will be carried out at your site following an evaluation of requirements by an Instron alignment verification consultant. The evaluation will include review of the alignment criteria for your testing system's application and the criteria for an alignment specimen which is representative of your test material. A certificate documenting the required comprehensive set of multiple test strain readings (including the Percent Bending parameter) will be issued upon completion of Instron's alignment assessment.

Instron can also provide or manufacture the required representative strain gauged alignment specimen.

Should your testing system's alignment not be in compliance with Nadcap, we can work with you to develop a corrective action plan to achieve the required level of accuracy. Adjustment and/or Instron's AlignPRO™ Alignment Fixture combined with our alignment assessment procedures can often bring a non-compliant system into alignment compliance.

Instron Professional Services... The Difference is Measurable®

Instron Professional Services can deliver a comprehensive range of support services aimed at providing value, system availability, and test quality throughout the life of your materials testing system – helping you to maximise effectiveness and return on investment.



Consulting Services



Installation



Training



Calibration



Preventative Maintenance



Technical Support



Relocation Assistance



Upgrade



Repair & Parts



Resources

Additional Services for Audit Compliance and Materials Testing Laboratory Efficiency

Instron®'s Global Professional Services Team will assist you at each step to address your compliance verification requirements; beginning with consultation to understand requirements specific to your materials testing systems application and operations – through to the scheduling and delivery of required services.

We can work with you to comply with Nadcap audit criteria. These include the additional testing system verifications and calibrations, preventative maintenance, staff training, and frequency of these services to be compliant with Nadcap requirements.

Instron's Professional Services Team provides the knowledge and skills to help your business keep your materials testing operations functioning effectively while addressing your specific audit requirements. Our services and support include:



Consulting Services

Working with you; we can offer knowledge, advice and, direct help for materials testing within your laboratory operations, including the addressing of your Nadcap audit requirements.



Technical and Software Support

You can reach us by phone, email and web to discuss questions regarding the configuration, operation, and the application of your systems and software products.

Instron's software support agreement provides you with immediate support that can help you improve efficiency and productivity within your laboratory.



Calibration and Verification Services

Instron's accredited services reduce your costs and your exposure to risks, providing you with the confidence in the reliability and repeatability of your test results for your business and your customers. Our laboratories are ISO/IEC 17025 accredited.

On-site calibration and verification services include Force, Speed, Strain (extensometers), Displacement, Impact, Temperature, Torque, Creep, Alignment, and Strain Gauge Channel.

Our verification and calibration services cover a wide range of procedures to meet or exceed many of the ISO and ASTM standards. Certificates, which can be used in the event of an audit, are individually issued following each calibration.



Training

Offering a comprehensive range of system level training courses, our curriculum is designed to meet the training needs of machine operators and test method developers - from novice to expert. Training is offered in a classroom setting, on-site, or customised to your needs.



Preventative Maintenance

Preventative maintenance ensures you get the most out of your materials testing equipment. Each visit includes a pre-defined set of maintenance activities designed to help maximise uptime.

Global Support That is Local to You

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