

## **Company Background**

Proficiency Testing Australia (PTA) is one of Australia's largest and most experienced proficiency testing providers. We have a reputation for providing friendly, customer-focussed service using qualified, experienced staff and specialists.

PTA is able to service a very broad range of industries, and many of our clients come to use our services based on the recommendation of colleagues. PTA has offices in Sydney and Brisbane, so our services and support are readily accessible.

PTA is accredited as a Proficiency Testing Provider by International Accreditation New Zealand (IANZ). The accreditation covers the specific proficiency testing programs listed on the agreed scope of accreditation. The accreditation meets the requirements of ISO/IEC 17043:2010 *Conformity assessment - general requirements for proficiency testing*.

## **Aim of the Program**

The aim of the Tensile Testing of Metals program is to test each participant's ability to competently perform mechanical testing of metal samples.

## **Application of program to accreditation**

Participation in proficiency testing programs will satisfy the requirements of ISO/IEC 17025:2017 *General requirements for competence of testing and calibration laboratories* for monitoring your performance by comparison with results of other laboratories.

## **Program Details**

The Tensile Testing of Metals program is conducted annually. The size and shape of the metal sample may vary from round to round.

Participants receive up to four test items for each round. The tests for each round include a range mechanical analysis:

- Thickness;
- 0.2% Proof Stress (non-proportional elongation) ( $R_{p0.2}$ );
- Upper Yield ( $R_{eH}$ );
- Lower Yield ( $R_{eL}$ );
- Tensile Strength ( $R_m$ );

- Percentage Elongation after Fracture (A%); and
- Percentage Reduction in Area after Fracture (Z%).

Participants are requested to report an estimate of their measurement uncertainty (MU).

A final report, summarising the information submitted by all of the participants can be viewed on the PTA website at the conclusion of each round of the program. A summary sheet is also sent to each individual participant at the conclusion of the program. This summary sheet details the performance of that laboratory in the program.

### **Confidentiality**

Each participating laboratory is assigned a code number to allow for confidential treatment of results in all reports and publications produced by PTA. Please refer to the PTA website <http://www.pta.asn.au/index.php/programs/confidentiality> for more information.

### **Fees**

Please contact PTA for information on fees for this program.

### **Further Information**

For further information on the Tensile Program contact [ptaenquiry@pta.asn.au](mailto:ptaenquiry@pta.asn.au)