



هيئة التقييس الخليجية
GCC Standardization Organization

2023 Catalogue for Proficiency Testing (PT) Programs

Brief:

The GSO PT Programs are a valuable tool for laboratories in GSO Member States to assess their performance, maintain accreditation, and compare their results with trusted references. The programs are organized in cooperation with international accredited by ISO/IEC 17043 PT providers, ensuring that they meet the highest standards of quality.

The benefits of participating in the GSO PT Programs are numerous. By participating, laboratories can:

- Improve the performance of the lab and identify measurement problems.
- Compare methods and procedures.
- Teach the staff and demonstrate the validity of the results.
- Satisfy regulators and Accreditation Bodies.

Scope of GSO Proficiency Testing (PT) Programs:

The GSO 2023 PT Programs are free to register for and free to ship samples to laboratories in GSO Member States :

- United Arab Emirate
- Kingdom of Bahrain
- Kingdom of Saudi Arabia.
- Sultanate of Oman.
- Qatar State.
- Kuwait State.
- Republic of Yemen

Overall, about GSO PT Programs:

The GSO PT Programs are a valuable resource for laboratories in GSO Member States. They offer a number of benefits, including the opportunity to improve performance, identify measurement problems, compare methods and procedures, teach staff, and demonstrate the validity of results. The programs are easy to participate in and are organized in cooperation with reputable organizations. It is highly recommended PT programs to any laboratory in a GSO Member State.

How the Program Works:

1. **Register your lab** for the chosen PT program by providing some general information about your organization.
2. **Once the total number of participant laboratories is confirmed**, a schedule will be established and communicated to those laboratories along with a detailed protocol of the program.
3. **The testing material will be shipped** to the participants as per the pre-established schedule. GSO has the responsibility to guarantee the stability and the homogeneity of samples throughout the whole distribution process.
4. Each participant (laboratory) will **perform the testing according to the procedure** given in the protocol and provide GSO with the obtained results.
5. After collecting the data, GSO in cooperation with the PT provider, will carry out the statistical analysis and **share with all participants (coded for confidentiality) the performance results generated by the program.**



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2023


Programs List

Hot Rolled Ribbed Steel Bars

Program Code: GSO-NIL PT/01/2023

Program Details

Program Schedule	The program will run from July 2023 to October 2023.
Registration/ Shipping Fees	<p>Free of charges for labs in GSO Member States:</p> <ul style="list-style-type: none"> • United Arab Emirate. • Kingdom of Bahrain. • Kingdom of Saudi Arabia. • Sultanate of Oman. • Qatar State. • Kuwait State. • Republic of Yemen.
Testing Features	Strength, Elongation and Extension for Hot Rolled Ribbed Steel Bars
Testing Material (PT Item)	<p>Item: Hot rolled ribbed steel bars (each set with 3 samples)</p> <p>Sizes $\Phi 20\text{mm} \times 600\text{mm}$ or $\Phi 18\text{mm} \times 600\text{mm}$</p> <p>(Recommended testing machine range: 300kN~2000kN)</p>
Testing Method (Testing for)	<ul style="list-style-type: none"> • ISO 6892-1:2019 Metallic materials — Tensile testing — Part 1: Method of test at room temperature • ISO 15630-1:2019 Steel for the reinforcement and prestressing of concrete — Test methods — Part 1: Reinforcing bars, rods and wire (Manual method for Agt)

Testing Parameters	<ul style="list-style-type: none"> • Tensile Strength (Rm)/MPa • Lower Yield Strength (ReL)/MPa • Percentage Elongation After Fracture (A)/% • Percentage total extension at maximum force (Agt)/%
Registration	<p>Click here or scan the QR code below:</p> 
Registration Deadline	31st July 2023
Program Accreditation	This program is co-organized by GSO and the China NIL Research Center for Proficiency Testing, which is accredited to ISO/IEC 17043.

Hot Rolled Ribbed Steel Bars

Program Code: GSO-NIL PT/02/2023

Program Details

Program Schedule	The program will run from July 2023 to October 2023.
Registration/ Shipping Fees	<p>Free of charges for labs in GSO Member States:</p> <ul style="list-style-type: none"> • United Arab Emirate. • Kingdom of Bahrain. • Kingdom of Saudi Arabia. • Sultanate of Oman. • Qatar State. • Kuwait State. • Republic of Yemen.
Testing Features	Determination of C, Si, Mn, P, and S for Hot Rolled Ribbed Steel Bars
Testing Material (PT Item)	<p>Item: Hot rolled ribbed steel bars</p> <p>Discs samples (Φ38×15mm)</p> <p>If needed, chip samples from the disc samples can be provided.</p>
Testing Method (Testing for)	<ul style="list-style-type: none"> • ASTM E415 <p>Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry</p> <ul style="list-style-type: none"> • Or other methods


Testing Parameters	<p>Determination of:</p> <ul style="list-style-type: none"> • Carbon (C) • Phosphorus (P) • Sulphur (S) • Magnesium (Mn) • Silicon (Si)
Registration	<p>Click here or scan the QR code below:</p> 
Registration Deadline	31st July 2023
Program Accreditation	This program is co-organized by GSO and the China NIL Research Center for Proficiency Testing, which is accredited to ISO/IEC 17043.

Cement

Program Code: GSO-NIL PT/03/2023

Program Details

Program Schedule	The program will run from July 2023 to October 2023.
Registration/ Shipping Fees	<p>Free of charges for labs in GSO Member States:</p> <ul style="list-style-type: none"> • United Arab Emirate. • Kingdom of Bahrain. • Kingdom of Saudi Arabia. • Sultanate of Oman. • Qatar State. • Kuwait State. • Republic of Yemen.
Testing Features	Determination of the Fineness and Specific Surface Area of Cement
Testing Material (PT Item)	Fluorite Powder
Testing Method (Testing for)	<ul style="list-style-type: none"> • ASTM C430-17 Standard Test Method for Fineness of Hydraulic Cement by the 45-μm (No. 325) Sieve • ASTM C1891-20 Standard Test Method for Fineness of Hydraulic Cement by Air Jet Sieving at 45-μm (No. 325) • ASTM C204-18E1


	Standard Test Methods for Fineness of Hydraulic Cement by Air-Permeability Apparatus
Testing Parameters	<ul style="list-style-type: none"> • Fineness (45-μm sieve) • Specific surface area
Registration	<p>Click here or scan the QR code below:</p> 
Registration Deadline	31st July 2023
Program Accreditation	This program is co-organized by GSO and the China NIL Research Center for Proficiency Testing, which is accredited to ISO/IEC 17043.

Diesel Fuel

Program Code: GSO-KTR PT/04/2023

Program Details

Program Schedule	The program will run from July 2023 to October 2023.
Registration/ Shipping Fees	Free of charges for labs in GSO Member States: <ul style="list-style-type: none"> • United Arab Emirate. • Kingdom of Bahrain. • Kingdom of Saudi Arabia. • Sultanate of Oman. • Qatar State. • Kuwait State. • Republic of Yemen.
Testing Features	Determination of Flashpoint and Sulfur content in Diesel Fuel
Testing Material (PT Item)	Diesel Fuel (450 ml)
Testing Method (Testing for)	<ul style="list-style-type: none"> • ISO 2719:2016 Determination of flash point — Pensky-Martens closed cup method • ISO 8754:2003 Petroleum products — Determination of sulfur content — Energy-dispersive X-ray fluorescence spectrometry
Testing Parameters	<ul style="list-style-type: none"> • Flashpoint in °C according to ISO 2719:2016 • Sulfur content in % according to ISO 8754:2003

<p>Registration</p>	<p>Click here or scan the QR code below:</p> 
<p>Registration Deadline</p>	<p>31st July 2023</p>
<p>Program Accreditation</p>	<p>This program is co-organized by GSO and the Korea Testing & Research Institute (KTR), which is accredited to ISO/IEC 17043.</p>

GSO Website

If you are interested in learning more about the GSO PT Programs, please visit the GSO website: <https://www.gso.org.sa> or contact GSO directly.

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