

QUALITESTTM

Canada

Testing | Training | Technical Services

Welding Engineering
Consultancy

Welding Procedure
Development

Welder Training
(15 Booths Available)

Welder Testing
(ABSA & CWB)

Metallurgical Testing

Failure Analysis

Structural Steel
Inspection

Non-Destructive
Testing

Geotechnical
Testing

Quality Manual /
Procedure

Equipment
Preservation

Instrumentation
Calibration



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Metallurgical Testing Services

Qualitest Canada is Top Ranked testing facility situated in Nisku, Alberta. Our facility consists of a wide range of testing equipment for evaluating the mechanical properties of ferrous and non-ferrous alloys, composites, and ceramics. Our specialties in Materials Science will provide fast and reliable response to your needs regarding the qualification of your products. For obtaining accurate results, you can bring your material to us and we will prepare the test specimens for various mechanical tests based on your specifications and project requirements. We have experience with numerous testing standards such as ASTM, ASME, CSA, API, AWS and many more. Qualitest offers a broad range of material testing as described in the below:



- ⦿ Tensile Testing
- ⦿ Compression Testing
- ⦿ Guided Bend Tests
- ⦿ Hardness Tests Including Brinell, Rockwell and Vickers
- ⦿ Low Temperature Testing
- ⦿ Micro-structure Examination
- ⦿ Failure Assessment and Root Cause Analysis (RCA)
- ⦿ Positive Material Identification (PMI)
- ⦿ Flaws and defects
- ⦿ Material composition
- ⦿ Corrosion susceptibility
- ⦿ Charpy V-notch (CVN) Impact Test
- ⦿ Chemical Analysis
- ⦿ Macro-structure Examination
- ⦿ Other Mechanical Testing
- ⦿ Ferrite counting



Our Capabilities includes

- ⦿ Chemical Analysis – instrumental and classical wet chemistry
- ⦿ Mechanical Testing – wide-range of tests to measure material strength, ductility, hardness, and more
- ⦿ Corrosion Testing – accelerated inter-granular corrosion, salt spray, humidity, passivation and more
- ⦿ Our in-house machine shop allows for quick cost effective sample preparation, saving you time and money
- ⦿ Mechanical properties
- ⦿ Heat treat upgrade
- ⦿ Fracture Mechanics – fatigue crack growth and fracture toughness
- ⦿ Metallurgical Examination – microscopic, macroscopic and micro-hardness examinations
- ⦿ Nondestructive Testing – ultrasonic, hydrostatic pressure, X-ray, magnetic particle, liquid penetrant
- ⦿ Our highly experienced Engineering team can also research material failures. Please contact us to get more details for the below.
- ⦿ Microscopic product features

Qualitest Canada's metallurgical testing lab is fully equipped to prepare test specimens and samples for all metal tests performed in our destructive testing departments. Our non-destructive metal testing services can be performed on a wide-range of products such as tubing, pipe, bar, plates, castings, fasteners and other machined parts in all sizes, shapes and weights. Once the testing is completed, our Engineers will prepare a detailed technical report with metal test results, accreditation, and specifications etc. as per our client's project requirements.



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Welding Procedure Specification

Qualitest Canada is a world leader in designing, testing and documenting Welding Procedure Specifications (WPS) for various applications. Our highly experienced welding engineers and technicians will design welding procedure specification (WPS) based on your requirements and applicable codes and standards such as ASME, CWB, API, CSA, AWS and etc.

We are proud of having experienced Welding Engineers who have a long history in successfully designing and documentation of welding procedures for a broad range of applications. Our experienced engineers solve challenging problems regarding welding procedures and WPS preparation. Qualitest provide additional services as following:

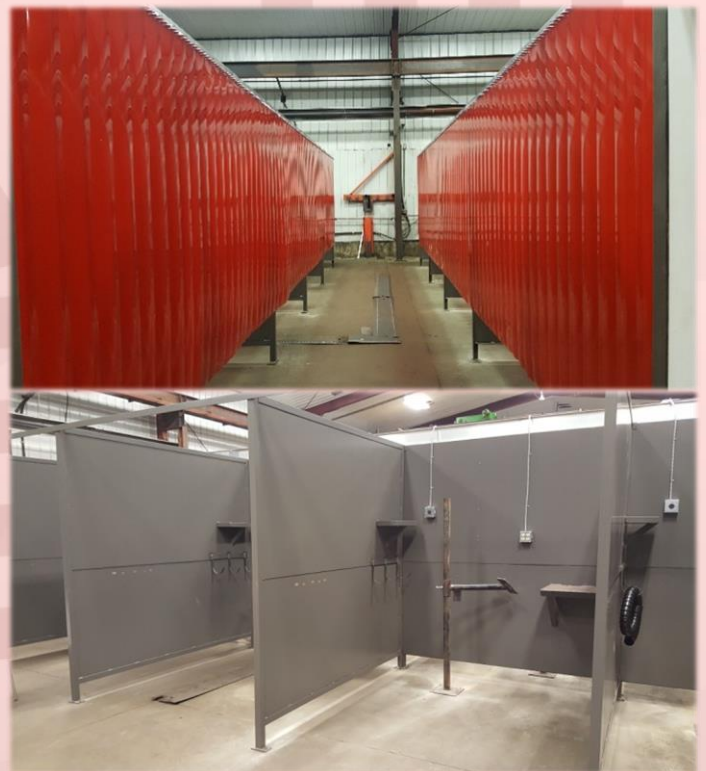
- ◎ Perform welding quality control inspections and prepare documentation
- ◎ Prepare quotes for the welding part of a project
- ◎ Supervise and inspect critical weld procedures in the field
- ◎ Evaluate existing welding procedures

Welder Testing / Training

Qualitest provides convenient, hassle-free welder testing according to your project requirements. Based on your request, Qualitest will arrange the welder qualification tests either at our location or yours and will provide all the required test materials and equipment. Qualitest welder testing facility is approved by **ABSA and CWB**.

Qualitest will issue the test results on the same day of exam using our in-house machine shop and advanced laboratory equipment. Our fully equipped testing facility is located in Nisku which is minutes away from the Edmonton International Airport. Give us a call today to book your next test.

At present we provide Welder Qualification and Weld Procedure Testing Services in Alberta, but we can also provide our services to other provinces upon requests from clients.



**** CWB WELDER TESTING ON EVERY TUESDAYS ****



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Geotechnical Testing Services

Qualitest Canada provides subsurface exploration and investigation for a broad range of projects, such as municipal and commercial projects, industrial, subdivision, institutional, oil and gas processing plants, pipelines, medium to high-rise buildings, energy development, housing and condominium, roads and bridges. We provide comprehensive review and recommendations to clients for their ambitious projects. We provide the excellent geotechnical consultancy services to meet our clients need such as the following:

- ⦿ Geotechnical investigation and exploration
- ⦿ Materials engineering and quality control
- ⦿ Shallow and deep foundation analysis and design recommendations
- ⦿ Pile design, construction, monitoring and inspection
- ⦿ Soil drilling and rock anchoring
- ⦿ Soil investigation and soil stabilization
- ⦿ Soils and aggregate sampling and testing
- ⦿ Test pit excavation, sampling and testing
- ⦿ Slope stability and assessment of retaining wall structures
- ⦿ Pavement analysis and design recommendations
- ⦿ Project management and inspection
- ⦿ QA/QC Inspection and Testing

The above-mentioned consultancy services are backed up by the laboratory testing services that we have. We are pleased to offer the following inspection and materials testing services for various stages of construction for your projects:

- ⦿ Soil compaction testing and inspection
- ⦿ Earthworks quality control testing and monitoring
- ⦿ Non-destructive testing for concrete structures
- ⦿ Groundwater monitoring and inspection
- ⦿ Shotcrete monitoring and testing
- ⦿ Mortar and grout testing
- ⦿ Concrete mix designs
- ⦿ Foundation inspection and monitoring
- ⦿ Steel fabrication and rebar installation inspection
- ⦿ Compressive strength tests for concrete cylinders
- ⦿ Concrete testing and inspection
- ⦿ Pile inspection and monitoring
- ⦿ Proctor and sieve analysis
- ⦿ Base inspection



Land Surveying

- ⦿ Geodetic Surveys – Surveys, which establish control networks on a mathematical datum so that measurements will reflect the curved (ellipsoidal) shape of the earth.
- ⦿ Land Surveys – Surveys, which include retracement of existing land ownership boundaries or the creation of new boundaries.
- ⦿ Engineering Surveys – Surveys performed for the location, design, construction, maintenance and operation of engineering projects.
- ⦿ Construction Surveys – Surveys, which establish stakes in the ground, and other like reference points, at known horizontal and vertical positions to define location and size of each component of the facility to be constructed, enable inspection of contract items, and serve as a basis of payment for work.
- ⦿ Cartographic Surveys – Map making from the original survey.



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Non-Destructive Testing

Qualitest is a world leader in developing and performing of Non-Destructive Testing (NDT) techniques. We are one of the best NDT/NDE Service Provider in British Columbia, Saskatchewan and Alberta. Our highly skilled and knowledgeable engineers and certified technicians use a wide range of equipment to solve various NDT problems. NDE/NDT can be applied for both metallic and non-metallic (e.g. polymers and composites) materials. We perform the NDE/NDT during production, post-production or in service in accordance with the project requirements. Qualitest Canada perform the following Non-Destructive Tests (NDT):

- ◎ Weld Visual Inspection (VT)
- ◎ Liquid Dye Penetrate Examination (PT)
- ◎ Conventional and Computed-Gamma Radiography
- ◎ Ultrasonic Testing (UT) for Obtaining the Materials' Thickness and the Corrosion Mapping- zero Degree Scan
- ◎ Production Hardness Testing
- ◎ Magnetic Particle Testing (MT or MPI)
- ◎ X-ray Fluorescence (XRF) Analysis
- ◎ Coating Inspection and Coating Failure Analysis (NACE certified procedures)
- ◎ Ultrasonic Testing (UT) for flaw detection
- ◎ Ferrite Testing

Advanced NDE Services

Our services operate a full range of state-of-the-art computerized inspection utilizing high technology equipment and delivering unparalleled accuracy and resolution. Our client or third party inspector will have the access to review all the stored data files. We can provide test solutions to whatever thickness or diameter you would require:

Our Capabilities includes:

- ◎ Automated Ultrasonic Testing (AUT)
- ◎ Phased Array Ultrasonic Testing (PAUT)
- ◎ Time of Flight Diffraction (ToFD)
- ◎ Tube Inspection – ECT/IRIS/MFL/RFT
- ◎ Video scope (Manual / Borescope)



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Preservation and Equipment Maintenance

Qualitest Canada deliver high-quality preservation and maintenance for a wide range of mechanical equipment to ensure the health and safety of your employees and the environment. We offer preservation and maintenance services for various type of mechanical equipment starting from receiving until turnover to field operations as following:

- Perform inspection on receiving equipment for any damages
- Conduct regular inspections of designated equipment to ensure that they are stored and protected properly
- Manage equipment storage and maintenance record
- Organize and maintain the storage environment clean and tidy
- Supervise storage and maintenance of equipment while maintaining in the warehouse or lay-down areas until transfer to the construction site
- Record and organize “Material Tracking System” to facilitate equipment delivery, storage and maintenance
- Perform and record required preventive maintenance, suggested by field inspectors
- Ensure that the preservation and maintenance requirements are included in the purchase order and have been applied to equipment prior to delivery in accordance with supplier documents
- Provide the material safety data sheet (MSDS) for any products and equipment that the Contractor uses and procures at the site
- Procure the required preservation and maintenance materials
- Facilitate a regular inspection by the principal to verify compliance with preservation procedures
- Control weather condition of the storage location, including the moisture, temperature and pressure level based on the required specifications
- Provide preservation status report, including preservation and maintenance record on a weekly basis or the interval required by the project.

Our experienced employees execute regular risk assessment and suggest valuable recommendations based on their findings which prevent any further loss. Qualitest is happy to provide the best Industrial Equipment Preservation Services in Alberta and other provinces of Canada.



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