

Canada

Training, Consulting and Engineering Services for the Rail Industry

PROFESSIONAL  COMPREHENSIVE  GLOBAL

Canadian knowledge-based services cover every aspect of railway operation. From the consulting services required for a new rail line, the engineering behind its construction, to the personnel training required for its daily operation, qualified Canadian companies are available to do the job.

CANADA'S GLOBAL PRESENCE

Countries that are expanding their current systems or are just realizing the benefits of rail need expertise on how to proceed. In all of these areas, Canada is a world leader in providing knowledge-based services for rail clients anywhere on the globe.



The rail industry today requires much more than a train and a track to deliver goods and passengers to their destination. Today's rail companies need highly skilled employees who are trained in every aspect of the industry's complex technology.

(Photo: International Technical Services — ITS)

Canadian companies have played important roles in thousands of rail projects around the world.

- ▶ Since 1971, **CANAC Inc.** has completed over 700 major rail-related projects in 60 countries.



Many companies offer services in several languages. Arabic, Armenian, Cantonese, Mandarin and Spanish are just a few of the languages spoken at Canadian branch offices worldwide.

(Photo: ITS)

- ▶ **CPCS Transcom Ltd.** currently has consulting contracts in two dozen countries and has completed projects in 48 countries during the past five years.
- ▶ **Canarail Consultants Inc.** has provided expert advice on rail systems in over 35 countries, including Algeria, Bangladesh, China, Indonesia, Mongolia, Russia, Senegal, Tanzania, Tunisia and Zambia.



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- ▶ **Sandwell International Inc.** and its subsidiary International Rail Consultants recently completed rail consulting and engineering projects for large mining and pulp operations in Indonesia and Thailand.
- ▶ **International Technical Services (ITS)** has trained rail workers and provided consulting services in over 32 countries. ITS also has wide-ranging expertise in rebuilding locomotives, including those in Botswana, Zimbabwe and the Middle East.

CANADIAN CAPABILITIES

Over fifty major Canadian companies provide training, consulting, and engineering services to foreign customers.

Training

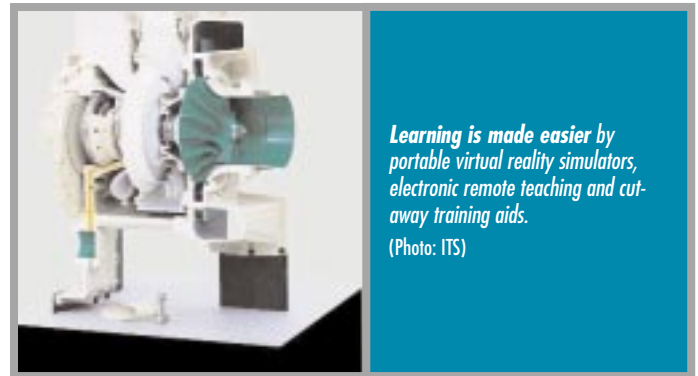
Canadian companies facilitate training through an extensive network of branch offices. Courses cover all aspects of railway operations — from managerial and employee training and advanced locomotive repair to instruction on the installation and maintenance of highly technical rail-crossing signalling systems. Other curriculum includes railway operational procedures, safety and security matters and mechanical training on the upkeep of equipment.



To those familiar with Canada's global reputation for quality in the railway manufacturing industry, it should be no surprise that Canadian companies offer a complete training package.

(Photo: ITS)

Most companies will provide custom-designed courses based on a client's particular needs and use advancements in technology and communication to facilitate classes. Basic English language skills and industry terminology are also offered to non-English speaking clients to assist them in their business relations.



Learning is made easier by portable virtual reality simulators, electronic remote teaching and cut-away training aids.

(Photo: ITS)

Consulting

Canadian companies provide a complete range of consulting services at all stages of a project's development:

- ▶ when beginning a project, large or small, Canadian rail consultants will assess the feasibility of the business plan and determine accurate costs;
- ▶ they will obtain building materials and monitor the work through to completion;
- ▶ when finished, the consultants will oversee the operation and maintenance of the enterprise to ensure its optimal functioning.

For existing rail companies, consultants will monitor business efficiencies, assess the performance of equipment and provide advice on mechanical failure and train control. Many firms will provide on-site expert consultation to mechanics to eliminate failure quickly and minimize downtime.

Engineering

Canadian engineering firms have coordinated and implemented rail projects around the world, laying track and building facilities in the most challenging regions of the planet. From the Amazon to the Arctic, Canadian expertise has advanced the growth and development of many railway systems.



Canadian rail engineers have implemented modern train-control systems in remote regions and laid new track lines in difficult areas such as soft, mountainous and arid terrain.

(Photo: Sandwell International Inc.)

Many of the firms that provide consulting expertise also perform the required engineering services, thus making contracting that much easier for rail companies. By using state-of-the-art technology that is often unique to the industry, firms can complete jobs quickly and with exceptional precision and quality. Canadian companies offer turn-key solutions to rail operators.

Here are just a few examples of the work provided by Canadian engineering firms, from the planning stages to completion:

- ▶ all matters relating to track, including inspection, renewal, replacement and removal
- ▶ tunnel and bridge construction
- ▶ railyard facilities, terminals, and other infrastructure
- ▶ state-of-the-art signalling systems
- ▶ advanced train control and network planning

CANADIAN EXCELLENCE

Canada's 120 year history with rail and vast technological resources have spawned many knowledge-based companies with extensive capabilities. Through a commitment to research and development, Canadian companies have kept at the forefront of technological change.

Canadian companies provide expert advice and consultation on the increasingly complicated nature of trains and train signalling systems. As much of the industry technology has been developed by Canadian manufacturers, it is clear that Canadian firms are best suited to provide operational and mechanical training. Canadian locomotives, rolling stock, and other equipment travel worldwide and are closely followed by dedicated support teams.

Canadian Firms Can Meet Any Demand

Canadian consulting and engineering firms have broad work experience, ranging from complex urban transit systems to challenging conditions of climate and terrain. Canada's rail lines consist of long-haul, short-line and tourist trains as well as intermodal links and cross-border networks that face security and screening issues. Canadian companies are quite capable of meeting any demand of the global rail industry.



Canadian companies have the ability to accept clients anywhere in the world. Several firms have been operating for over 30 years and collectively have completed projects in most countries on the planet.

(Photo: Sandwell International Inc.)

NEED MORE INFORMATION ON CANADA?

► **The Canadian Association of
Railway Suppliers**

(www.railwaysuppliers.ca) represents companies which supply a broad range of equipment and services to Canadian railways and export markets. As an advocacy group, the Association promotes the economic viability of the rail mode within Canada.

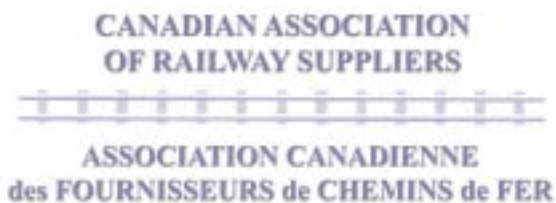
The Canadian government maintains a comprehensive on-line database of firms, products and capabilities at www.strategis.gc.ca/rail.



Canadian firms, working with local partners, establish or improve rail systems that are sources of national pride and essential to economic success.

(Photo: CPCS Transcom)

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