As one of North America’s largest pipe and custom steel fabricators and module erectors, Aecon knows how to deliver. We fabricate for virtually every major industrial sector — mining, conventional and nuclear power, automotive, oil sands, petrochemical, forestry and marine — and have the resources and expertise to meet our clients’ needs, no matter how diverse or how remote. Aecon operates fabrication facilities from coast to coast and boasts a shop and module yard capacity that’s second to none. The combination of capacity and expertise, aligned with the excellence of our skilled tradesmen and ability to self-perform the scope of work both on-site and off-site, provide our clients with value-added flexibility when facilitating their construction projects. From start to finish, Aecon carries out all work within a “Safety First” culture that protects our people, our partners and our environment.
UNPARALLELED SHOP AND YARD CAPACITY, COMBINED WITH MORE THAN A CENTURY OF EXPERIENCE, OFFERS AECON CLIENTS A WINNING COMBINATION.

The Aecon Advantage

SAFETY FIRST

“Safety First” is our number one core value. We remain committed to a “zero injury” culture across our company on every project site and work environment. Simply put, if we can’t do it safely, we don’t do it at all.

CAPACITY

With seven (7) pipe fabrication and module assembly facilities and a proven track record built over years of successful delivery, Aecon offers clients a winning combination of capacity and expertise. We are equipped with the necessary resources to deliver simultaneous projects and meet tight deadlines, whether you’re around the corner or around the world. Our single point of contact and coast-to-coast presence gives us the capacity to serve both national and global market needs, with satisfied clients worldwide.

TECHNOLOGY

All Aecon piping, custom steel and module fabrication is performed using state-of-the-art automated equipment. Skilled, trained operators work with fully automatic and semi-automatic machines to ensure consistent, precise work. As well, our on-site post weld heat treatment furnace and paint blasting/coating facility gives full control over the quality of our products and optimizes project schedules.

INNOVATION

Aecon has garnered a pioneering reputation for both prefabricated piping services to better manage site labour and the integration of specialised coating systems into the fabrication process. We continue to invest time and resources into finding more efficient and innovative ways of meeting our clients’ ever-evolving requirements.
AT AECON, IT'S ALWAYS SAFETY FIRST

Thanks to our hard work and dedication to a “zero-injury” culture, our company has consistently received amongst the highest third-party safety audit rankings, including 15 years without a Loss-Time Injury (LTI) at our Cambridge, ON facility. These benchmark numbers are a result of our steadfast commitment to ensuring the safety of each employee, client, subcontractor and member of the public.

SAFE ENVIRONMENTS

In addition to personal safety, Aecon remains committed to protecting the environments in which we do business. From coast to coast, our company follows applicable government legislation and works to exceed those standards wherever possible. Our employees, subcontractors and suppliers all follow Aecon’s stringent safe work practices and procedures because, at Aecon, if we can’t do the work safely, we won’t do it at all.

SAFETY MATTERS ... MOST!
Exceptional capacity means exceptional range in service delivery. At Aecon, our experienced pipe fabricators can produce pipe from virtually any material, in sizes ranging from ½” to 90” in diameter. Our combined fabrication facilities generate more than 2.5 million diameter inches annually to both national and international clients.

To achieve this level of production, our Aecon shops are harmonized under a “best practices” management system that emphasizes consistency and quality by replicating the same pipe fabrication processes at each facility.

As the country’s largest, publicly traded construction and infrastructure development company, Aecon offers clients the assurance of resources and expertise. It means we have what it takes to deliver on large, simultaneous projects without jeopardizing tight production schedules. It also means we can offer our clients the distinct advantage of Aecon’s seamless service solutions, thereby mitigating scheduling risks and logistical considerations by drawing upon our company’s strengths and presence in virtually every sector of the construction and infrastructure development industry.

Aecon offers the skills of qualified operators in a wide range of materials, including:

- Carbon
- Stainless Steels
- Chromes
- Copper
- Aluminum
- Nickel
- Duplex
- Super Duplex
- Titanium
- Heavy Wall
- Specialty Materials

State-of-the-Art Technology

Aecon’s in-house customized computer software applications enable real-time tracking of each project stage, direct from the shop floor, providing our clients with the most up-to-date progress of a project. New state-of-the-art technologies, such as touch screen tablets and RF scanners, accurately capture and communicate data, from the initial drawing stage concept through the fabrication cycle and on to final on-site delivery and installation. Our fabrications shops also utilize a multifunctional dashboard system, which serves as both a real-time production cycle notifier for shop personnel, as well as an effective notice board for communicating relevant safety, project and emergency alert information.
AECON LEADS THE WAY IN PIPE FABRICATION WITH HALF A MILLION SQUARE FEET OF OPERATING SHOP SPACE AND 200 ACRES OF YARD CAPACITY SPREAD ACROSS SEVEN (7) NATIONWIDE FACILITIES.
MODULARIZATION

Thanks to its cost effectiveness, ease of transport and time-saving attributes, off-site modular assembly is the preferred method of construction in industrial development. This highly efficient process alleviates the challenges typically associated with tight project schedules, changing site conditions and availability of skilled field labour.

Aecon is well equipped to construct a wide range of modular assemblies using the latest in design techniques. In addition to custom pre-fabricated pipe spools, our modules can incorporate a broad range of components, including valves, instrumentation, cable tray and equipment, and structural supports. All components can be packaged to improve project delivery anywhere around the globe.

Aecon assembles modules and fabricates pre-assembled, skid-mounted components for the oil and gas, petrochemical, conventional and nuclear power industries with the utmost dedication to quality, cost effectiveness and scheduling.

In our Edmonton (AB), Cambridge (ON) and Dartmouth (NS) facilities, our highly skilled module team applies the latest modular methodologies by using state-of-the-art equipment.

Aecon constructs and pre-assembles an extensive range of modular equipment and can accommodate special projects, as required. Our modular skids incorporate many custom components, such as:

- Piperack and Equipment Modules
- Processing Equipment
- E-Houses
- Pump Houses
- Building Modules
- Equipment Staging and Pre-Assembly
- Structural Supports
- Operations Control Centres
- Pipe and Equipment Tracing
- Insulation Packages
- Fireproofing
- Electrical and Instrumentation

AECON HAS THE CAPACITY TO WORK ON MORE THAN 200 MODULES AT ANY GIVEN TIME, MEETING THE GROWING NEEDS OF BOTH NATIONAL AND INTERNATIONAL CLIENTS.
OVER THE LAST DECADE, AECON HAS ERECTED MORE THAN 1500 MODULES IN VIRTUALLY EVERY MAJOR INDUSTRIAL SECTOR.
Aecon delivers superior custom steel fabrication solutions, from concept to completion, by drawing on our vast expertise in delivering unique items to suit any client request.

We continuously invest in our people, equipment and facilities in order to provide our customers with the best service, support and innovative solutions to meet their requirements.

Our strict attention to material selection, joining specifications and inspection procedures ensure that we deliver on the highest quality products. Our steel fabrication unit can fabricate both large and small projects. We operate under certified, third-party audited systems covering both structural and plate fabrication.

Due to the versatility of Aecon’s custom steel fabrication capabilities, our offerings include:

- Handrails, Guardrails and Stairs
- Structural Pipe Supports
- Catwalks and Hangers
- Mezzanines and Platforms
- Conveyors
- Box Trusses
- Small Structural Bridges
- Furnace and Boiler Sidewalls
- Hoppers
- Transitions
- Saddles
- Pedestrian Bridges
- Crane Rails
- Fence and Dam Gates
- Header Decks
- Vessels and Heat Exchangers
- Engineered Structures

Blasting and Paint Facility/In-House PWHT

Aecon offers clients a 20,000-square-foot, state-of-the-art blasting and painting facility specifically designed to handle large equipment and components.

Our in-house post-weld heat treatment (PWHT) ensures that any potential of stress-induced cracking is reduced, metallurgical structure is improved, product dimensional stability is maintained, and strength of both the material and life of the product is enhanced.
As a recognized leader in quality and performance, Aecon adheres to the strict standards of our well-developed in-house Quality Standards Program. Our commitment to excellence has earned us numerous industry accreditations from standards and safety authorities in all major Canadian provinces, as well as from North American and European certification bodies, including the American Society of Mechanical Engineers (ASME), National Board of Boiler and Pressure Vessel Inspectors, Canadian Welding Bureau (CWB) and Pressure Equipment Directive (PED). These certifications allow Aecon to fabricate and assemble a wide range of products for the global marketplace. Our highly coveted ASME N-Stamp is one of our recent accreditations and reflects our tier-one capabilities in design, fabrication and construction for the nuclear market. It signals our ability to manufacture and ship products to the U.S. and other major markets with the assurance that the work we produce from our facilities meets global requirements.

To ensure Aecon’s designations remain current and up to date, we engage several independent, third-party auditors—including ASME and TSSA—and also conduct regular internal audits. It’s our aim to ensure all personnel, processes and programs are performing to their highest potential at all times.

More than a century of diversified project experience in design, fabrication, welding and quality control underscores every Aecon project, and provides each client with our commitment to “Best Overall Value”.

Aecon projects are backed by the assurance of internationally-recognized industry certifications.
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