

CAPABILITY 01 / 27

Upstream – Exploration, Drilling & Production

Upstream reliability, from drilling to production.



Photo: Richard Bartz, Wikimedia Commons, CC BY-SA 2.5 – https://commons.wikimedia.org/wiki/File:Geothermie_Bohrturm.jpg

OVERVIEW

Upstream covers everything needed to find, drill, complete and produce oil and gas wells. COTI sources the equipment, tubulars, spares and consumables used from the drilling floor to the first treatment of the well stream, through qualified manufacturers and according to project specifications.

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1.1 Exploration and field-development support equipment and industrial supplies.

SUPPLY SCOPE

Exploration and field-development support equipment and industrial supplies.

DEFINITION

Exploration is the search for oil and gas using geological and geophysical methods such as seismic surveys. Field development follows a discovery, when wells, facilities and infrastructure are planned and built. COTI supplies support equipment, field consumables and industrial materials for these phases.



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1.2 Drilling equipment, drill-string accessories, drilling consumables and...

SUPPLY SCOPE

Drilling equipment, drill-string accessories, drilling consumables and mud-system components.

DEFINITION

Drilling equipment bores the well from surface to reservoir. The drill string (drill pipe, collars, bits) transmits rotation and fluid to the bit, while the mud system circulates and cleans the drilling fluid that cools the bit, lifts cuttings and controls well pressure.



Photo: Joshua Doubek, Wikimedia Commons, CC BY-SA 3.0 – https://commons.wikimedia.org/wiki/File:Drill_Pipe.JPG

1.3 Wellhead equipment, Christmas-tree related equipment, pressure-control...

SUPPLY SCOPE

Wellhead equipment, Christmas-tree related equipment, pressure-control equipment and associated spares.

DEFINITION

The wellhead is the pressure-containing equipment at the surface that supports the casing and tubing. The Christmas tree is the assembly of valves and fittings mounted on it to control flow. Pressure-control equipment, such as the blowout preventer, seals the well in an emergency.



Photo: Tim Evanson, Wikimedia Commons, CC BY-SA 2.0 – https://commons.wikimedia.org/wiki/File:Obenor_2_oil_well_-_wellhead_-_Arnegard_North_Dakota_-_2013-07-04.jpg

1.4 Casing, tubing, OCTG, couplings, pup joints and associated tubular...

SUPPLY SCOPE

Casing, tubing, OCTG, couplings, pup joints and associated tubular accessories.

DEFINITION

OCTG (Oil Country Tubular Goods) are the steel pipes used inside wells, usually to API 5CT. Casing lines and protects the drilled hole; tubing carries the produced fluids to surface. Couplings join the joints and pup joints adjust string length.



Photo: Seamless Steel Pipes, Wikimedia Commons, CC BY-SA 4.0 – https://commons.wikimedia.org/wiki/File:Seamless_Steel_Pipes.jpg

1.5 Completion and production equipment, artificial-lift related components...

SUPPLY SCOPE

Completion and production equipment, artificial-lift related components and production accessories.

DEFINITION

Completion prepares a drilled well for safe production (tubing, packers, safety valves, perforations). Artificial lift adds energy to bring fluids to surface when reservoir pressure is not sufficient, using sucker-rod pumps, electrical submersible pumps or gas lift.



Photo: Quintin Soloviev, Wikimedia Commons, CC BY 4.0 – https://commons.wikimedia.org/wiki/File:Oil_pumpjack_in_the_Permian_Basin.jpg

1.6 Separators, scrubbers, filters, pressure vessels, tanks, skids and...

SUPPLY SCOPE

Separators, scrubbers, filters, pressure vessels, tanks, skids and packaged process units.

DEFINITION

Surface production facilities treat the well stream. Separators split oil, gas and water; scrubbers and filters clean gas and liquids; pressure vessels and tanks hold fluids; skids and packaged units are pre-assembled systems on a steel frame for fast installation.



Photo: W.carter, Wikimedia Commons, CC0 – https://commons.wikimedia.org/wiki/File:Pressure_tanks_under_construction.jpg

1.7 Well-service, wireline and coiled-tubing related consumables and accessories.

SUPPLY SCOPE

Well-service, wireline and coiled-tubing related consumables and accessories.

DEFINITION

Well services are interventions on existing wells to measure, maintain or restore production. Wireline lowers tools on a cable; coiled tubing uses a continuous steel tube from a reel. COTI sources the consumables and accessories these operations require.



Photo: Dannybsnubbin, Wikimedia Commons, CC BY-SA 4.0 – https://commons.wikimedia.org/wiki/File:Coiled_Tubing_Unit.jpg

1.8 Chemical-injection, dosing and metering packages; production monitoring...

SUPPLY SCOPE

Chemical-injection, dosing and metering packages; production monitoring instruments.

DEFINITION

Chemical-injection packages add precise doses of inhibitors to prevent corrosion, scale, hydrates or wax. Metering pumps deliver an exact flow, and production-monitoring instruments measure pressure, temperature and flow to follow well performance.



Photo: LaurelBloch, Wikimedia Commons, CC BY-SA 4.0 – https://commons.wikimedia.org/wiki/File:Milton_Roy%27s_Primeroyal_X_Chemical_Metering_Pump.jpg

1.9 Critical spare parts, MRO and shutdown materials for upstream facilities.

SUPPLY SCOPE

Critical spare parts, MRO and shutdown materials for upstream facilities.

DEFINITION

Critical spares are parts whose failure would stop production or create a safety risk. MRO (Maintenance, Repair and Operations) covers parts, tools and consumables for daily upkeep; shutdown materials are prepared in advance for planned stops.

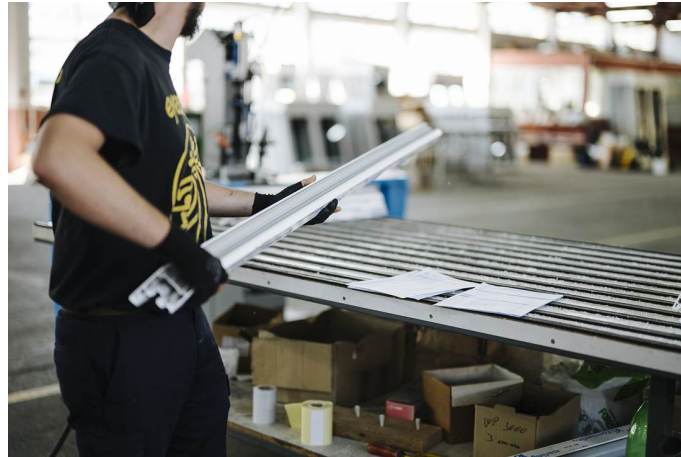


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Specialized services are provided and/or coordinated with qualified technical partners according to project requirements.

Contact COTI

Send us your RFQ, part numbers, nameplate photos or technical specifications. We will review your requirement and reply with a structured proposal.

Canadian Overseas Trade Inc. (COTI)

7175 rue Michelet, Suite 10, Montréal (Québec) H1S 2L8, Canada

info@coticanada.com | WhatsApp: +1 438 937 9124 | +971 54 223 8214

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