



COMPANY PROFILE

2026





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Our Story.

MCCS International story begins in 1993 as a small UK-based Mechanical Completion and Commissioning company, completing projects across the North Sea and Southern Europe including FPSOs, offshore platforms and onshore downstream facilities including the hook-up and commissioning of newly constructed facilities.

Since then, **MCCS has expanded** its presence globally.

In 2001, MCCS established its headquarters in Kuala Lumpur, Malaysia and representative offices in Indonesia and Bahrain. With decades of hands-on project experience across the Asia-Pacific and Middle East regions, **MCCS has evolved into a leading contractor specialist in mechanical completion, commissioning, process system testing, and associated services**; delivering precise, reliable, and innovative solutions for complex oil and gas developments.



Mission & Vision.

VISION

To help energy companies operate safely, reliably, and responsibly; delivering high-integrity services that support cleaner energy and a sustainable future.

MISSION

MCCS is committed to realise our vision of high-quality projects in the Energy sector by:

1. Employing subject matter expertise (SME) and Utilising innovation and technology.
2. Providing guidance and support to our clients fostering cooperation to achieve optimal, innovative solutions.
3. Focused driven to create opportunities to expand our services Worldwide.
4. Providing the highest quality of services by adhering ISO 9001:2015 standard.



At MCCS, Health, Safety, and Environment (HSE) are at the core of everything we do.

Acting responsibly in all operations, we are committed to **achieving zero injuries** as our ultimate goal.

We cultivate confidence among our clients and ensure the safety and well-being of our employees by **upholding the highest ethical standards and complying with all laws and regulations.**

Safety is our top priority; no operation takes precedence over it. **HSE is a fundamental part of our daily work and a shared responsibility** across every level of the organization. Each individual is accountable for their own safety and that of others.

We ensure that all MCCS employees, sub-contractors, suppliers, and partners perform their duties in alignment with our corporate values, goals, and HSE policies.

Our Services



- Project Management
- Pre-commissioning & Commissioning
- De-Commissioning
- Joint Integrity Management (JIM)
- Offshore Hook-up & Commissioning (HUC)
- Nitrogen / Helium Leak Testing
- Nitrogen Purging
- Strength-testing & Hydro-testing
- Hydraulic & Manual Bolt Tightening
- Insitu / Onsite Machining
- High Pressure Jetting
- Camera Inspection
- Chemical Cleaning & Oil Flushing
- System Drying Service
- Preservation Service
- BreechLock Heat Exchangers Maintenance
- TRK Valve supply

PRE-COMMISSIONING & COMMISSIONING.

MCCS conducts **thorough static and energised tests** following construction completion to ensure all equipment and systems are correctly **installed, cleaned, and tested in accordance with design** specifications.

This ensures a smooth transition of system readiness before the startup phase, **minimising delays, risks, and costly rework.**



OFFSHORE HUC

MCCS provides complete **personnel, engineering, equipment, and marine support for Hook-Up and Commissioning (HUC) of onshore pre-assembled units (PAUs) and offshore facilities**, including production, wellhead, and accommodation platforms. We ensure thorough training, quality compliance, and seamless coordination with onshore fabricators prior to load-out for efficient offshore execution.

N2/HE LEAK TESTING & ENGINEERING

MCCS provides comprehensive **nitrogen and helium leak testing** for piping and equipment during **pre-commissioning or shutdown phases** of onshore and offshore projects. Each test package includes detailed drawings, volume and duration estimates, and is performed under controlled mechanical or positive isolations to **ensure accuracy and safety**.



NITROGEN PURGING

We provide **Nitrogen purging** and flushing services to remove trapped hydrocarbons from process piping, and tanks prior to shutdown.

High-volume nitrogen is introduced to displace oxygen/hydrocarbons and **eliminate the risk of explosive mixtures** during shutdown activities or before reintroducing hydrocarbons into the system.



JOINT INTEGRITY MANAGEMENT (JIM)

MCCS delivers specialist **JIM** using approved joint engineering, full data traceability, and industry-leading equipment.

Our right-first-time philosophy **reduces asset risk, prevents failures, and eliminates rework** while maintaining an **incident-free environment**.



HYDRAULIC & MANUAL BOLT TIGHTENING

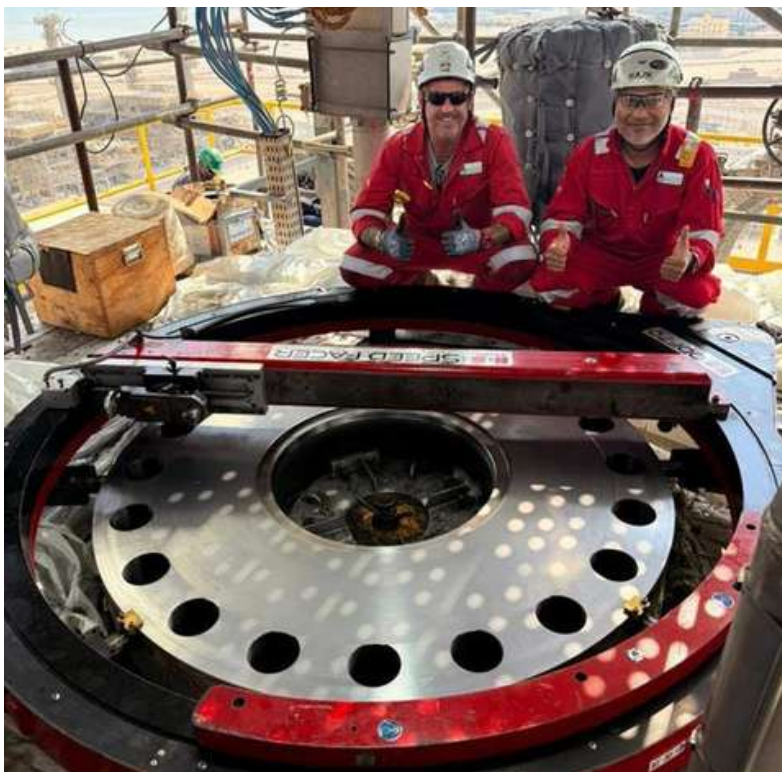
MCCS delivers professional, safe, and efficient **bolting services** for all types of flanged joints, hub connectors and equipment assembly to **ensure zero leaks** from start-up through operations.

We perform all activities from pre-assembly inspection to final tightening, backed by full verification, certification, and complete traceability of all bolted connections within our FMS system prior to final testing and commissioning.

MACHINING

MCCS's highly skilled machining engineers deliver precise in-situ and on-site machining services, including **analysis, re-machining, repairs, pipe cutting, and weld preparation.**

All work is performed to approved tolerances and industry standards using the correct tools and equipment. Our readiness for remedial or rectification tasks **helps minimise delays, last-minute callouts, and associated costs.**



HUB CONNECTOR ASSEMBLY AND MAINTENANCE

Hub connector assembly and maintenance services scope includes **detailed inspection of hub faces and seal areas, precision on-site machining** to restore sealing surfaces when required, **controlled selection and handling of seal rings, and accurate clamp installation** with verified bolt loading followed by **post-assembly leak testing** to confirm joint integrity.

HIGH PRESSURE JETTING

MCCS provides **high-pressure water jetting** to clean process piping by **removing construction debris and contaminants inside the pipe**. Using high-velocity water streams delivered through precision nozzles, this method **effectively cuts through solid deposits and restores surface cleanliness** without causing damage.



BREECHLOCK HEAT EXCHANGER MAINTENANCE

MCCS provides specialised teams for **Breech Lock Exchanger maintenance, sealing, and bolting**, along with **technical consultation** for facilities considering new units. We ensure correctly assembled exchangers that **deliver long-term, leak-free performance**.

PROJECT MANAGEMENT

MCCS offers **complete project oversight** for major construction and equipment installation, from initial planning through final commissioning. We specialise in complex phases like **Mechanical Completion, ensuring on-schedule, on-budget delivery** through proven experience and a **commitment to quality service**. Our scope includes **Project management team, project planner, and commissioning management system**.

DRYING SERVICES

Drying services to **completely remove all moisture** from piping systems immediately after hydro testing or flushing. By eliminating moisture, MCCS ensures the system is prepared for Nitrogen/Helium leak testing and **prevents future corrosion or contamination** before the introduction of hydrocarbons.

PRESERVATION SERVICES

Pipe preservation using gaseous nitrogen to fill piping and vessels.
Equipment Preservation protects mechanical, electrical, and rotating equipment. Using methods like nitrogen blanketing, dry air, coatings, and routine inspections, MCCS ensures assets remain in optimal condition, preventing moisture ingress, effectively guaranteeing that components remain safe from contamination and corrosion prior to system startup.

PUMA+ COMMISSIONING MANAGEMENT SOFTWARE

Puma+ is a digital commissioning and handover management platform designed to **streamline inspection, testing, and documentation processes. It enables real-time tracking, centralized data control,** and seamless collaboration between project teams; improving efficiency, transparency, and project delivery performance.

CAMERA INSPECTION

Internal Camera Inspection using a camera system for the **optical inspection of process piping, valves, and process equipment.**

This service allows for a **detailed visual assessment of internal conditions without disassembly**, supporting quality control and maintenance planning.

HYDRO & STRENGTH TESTING

MCCS provides **high-pressure testing of piping to confirm structural integrity and expose defects or leaks.** This essential service includes flushing and pressure testing, **ensuring safe, prolonged operation** and acting as the final validation of the constructed system.

OIL FLUSHING

MCCS provides oil flushing services to remove contaminants from hydraulic and lubrication systems. Using high-velocity circulation, advanced filtration, and cleanliness monitoring, we ensure systems meet OEM standards, improving reliability, preventing equipment failure, reducing downtime, and extending the service life of critical machinery.

CHEMICAL CLEANING

MCCS provides **chemical cleaning** using biodegradable solutions and **dedicated circulation equipment to remove internal scaling, oils, corrosion, and deposits without damaging system surfaces.** We also perform **hot and cold flushing of lube oil and hydraulic systems**, with all waste safely separated, treated, and disposed of in full compliance with environmental regulations.

A Proven Track Record of Excellence with:



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PROJECTS: MALAYSIA, INDONESIA, THAILAND, VIETNAM, MYANMAR, SOUTH KOREA, SUDAN, UK, SPAIN, BRAZIL.

OFFICES: MALAYSIA, VIETNAM, SOUTH KOREA, SAUDI ARABIA, KAZAKHSTAN



**ICTHYS CPF PROJECT
BERGADING PROJECT
BARONIA PROJECT
RAPID PROJECT
BUKIT TUA PROJECT
MINAS SURFACTANT PROJECT
SU TU VANG PROJECT
ENFIELD PROJECT
NORTH BELUT PROJECT
CAKERAWALA PROJECT**



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