



The Complete Solution Provider



- ENGINEERING, PROCUREMENT & CONSTRUCTION
- INSPECTION & TESTING
- TECHNICAL MANPOWER
- TRAINING & CONSULTANCY
- SOFTWARE SOLUTIONS
- DIVING, ANCHORAGE & SUBSEA SERVICES
- IMPORT & EXPORT OF PRODUCTS, EQUIPMENTS, MACHINERY AND SPARES.

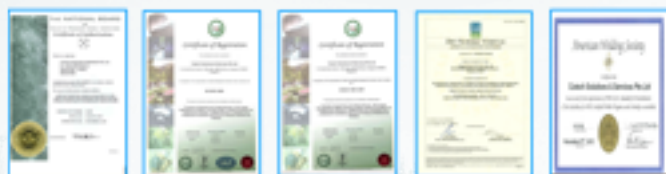
OUR PROFILE

Cutech is a rapidly growing global engineering group providing diversified services to the Oil & Gas, Petrochemical, Process, Marine, Industrial, Construction, Cement and Power sectors. It started with its headquarters in Singapore and now has its global footprint established in the Middle East, India, Malaysia and Indonesia with associate partners worldwide.

OUR CORE SERVICES

- ✔ Inspection, NDT, Advanced NDT and Other Services
- ✔ Asset Integrity Management Services
- ✔ Engineering, Procurement and Construction (EPC) Projects
- ✔ Technical Manpower Outsourcing & Placement
- ✔ Technical Training & Certification
- ✔ Welding Consultancy and Testing
- ✔ Engineered Products & Services
- ✔ Offshore & Marine Services
- ✔ Underwater Diving Services
- ✔ Software Development
- ✔ Cathodic Protection
- ✔ Import & Export of Products, Equipment, Machinery and Spares.

OUR CERTIFICATION & ACCREDITATIONS



INSPECTION, NDT, ANDT & OTHER SERVICES

Cutech provides independent Inspection & NDT Services delivered globally by highly qualified and trained engineers and technicians with the highest levels of quality and safety standards.

We have highly experienced and competent personnel who will be able to carry out inspection on call out, short term and long term basis.

Our Company is accredited to ISO/IEC 17020:1998, ISO/IEC 17025:2005 standards along with other accreditations from AWS, DNV, ABS, LR demonstrating our competitiveness and adherence to internationally recognized standards of excellence. Cutech is also authorized to Third Party inspection Agency under Ministry of Manpower (MOM) In Singapore for Pressure Systems.



Inspection Services

- ✔ Third party Inspection
- ✔ Expediting Services
- ✔ Vendor & Source Inspection
- ✔ Vendor Qualification Audit/ Supplier Technical Assessment
- ✔ Coating /Painting Inspection
- ✔ Engineering Design Review
- ✔ Lifting Equipment& Gears Inspection
- ✔ In-Service Inspection Services (API 510, 570, 653)
- ✔ On Stream Inspection
- ✔ RBI/FFS Assessment/Consultant
- ✔ Mechanical Integrity Audit/Evaluation Services
- ✔ Corrosion Monitoring
- ✔ Above Ground Storage Tank Evaluation
- ✔ Rig inspection, Drill Pipe and Tubular Inspection
- ✔ Pipeline integrity management
- ✔ Ship and Sea Going Vessel Inspection
- ✔ Cathodic protection inspection

Other Services

- ✔ Heat Treatment
- ✔ Hardness Testing



NDT Services

- ✔ Radiography Testing
- ✔ Ultrasonic Flaw Detection
- ✔ Ultrasonic Thickness Measurement
- ✔ Magnetic Particle Testing
- ✔ Dye Penetrant Testing
- ✔ Positive Material Identification
- ✔ Eddy Current Testing
- ✔ Infrared Thermography Testing
- ✔ Vibration Analysis
- ✔ Visual Testing
- ✔ Ferrite Measurement
- ✔ NDT and Level III Consultancy

Advanced NDT Services

- ✔ Phased Array (PA) UT, TOFD
- ✔ ECT, RFET, MFL (Tube Inspection)
- ✔ IRIS (Tube Inspection)
- ✔ Videoscope/Crawler Inspection
- ✔ MFL Tank Floor Inspection
- ✔ Long Range Ultrasonic Testing (LRUT)
- ✔ Sludge Mapping
- ✔ Acoustic Eye (Tube Inspection) / Acoustic Emission Testing
- ✔ Automated ultrasonic testing (AUT)



ASSET INTEGRITY MANAGEMENT SERVICES

Managing the integrity of the physical assets including the maintenance, inspection, renewal, maintenance of the records needs utmost importance as it affects the safety and profitability of an industry.

The integration of our resources is effectively utilized for carrying out all the tasks required for Asset Integrity Management which helps in maximizing return on assets while maintaining the company value and minimizing the risks associated with accidents and loss of production.

Cutech follows industry standard approach for the implementation of Asset Integrity Management, they are as follows.

- ✔ Listing of Assets
- ✔ Assessment of Risk
- ✔ Prioritisation and planning of Inspection Activities
- ✔ Inspection Activities carried out by experts
- ✔ Analysis of the Results and Recommendation
- ✔ Repair , Alteration & Rework
- ✔ Reporting and follow-up including Recertification.



Cutech is able to offer the following services individually or as a complete Integrity Management Solutions

- ✔ Corrosion monitoring survey / On stream Inspection
- ✔ Reliability Engineering / Risk Based Inspection Shut down inspection and documentation
- ✔ Static Equipment Inspection and Certification
- ✔ Rotating equipment Inspection and Certification
- ✔ Pressure Equipment Inspection and Certification Failure analysis and Recommendation.

CATHODIC PROTECTION

Cathodic Protection, whether by sacrificial or impressed current system, is an extremely efficient and cost effective method of corrosion prevention, tested and proven worldwide. It is a viable and economic means of providing protection to assets which are costly to repair or replace and should always be considered when long term corrosion protection in hostile environments is a prime requirement.

A considerable portion of the work is involved in the design and installation of Cathodic Protection systems for Onshore Pipelines, Tanks, Mounted Bullets and Plant Piping and Offshore Pipelines and for Sea going Vessels

With a well-equipped setup for design/engineering and with experienced engineers and technicians to implement projects with competence and efficiency, Cutech undertakes a variety of CP related jobs such as

- ✔ Design & Detailed Engineering for TCP & PCP Systems
- ✔ Soil resistivity Survey & Soil Sample Analysis
- ✔ Installation of TCP & ICCP Systems
- ✔ Testing & Commissioning of CP Systems



ENGINEERING, PROCUREMENT AND CONSTRUCTION (EPC) PROJECTS

Cutech has been actively involved in carrying out various projects related to Oil & Gas, Petrochemical, Process, Marine, cement and Power sector globally. A very competent project management team with motivated and technically superior workforce has helped Cutech to carry out many projects to the stringent quality requirement and within a

Our Engineering Procurement and Construction Services range from the sourcing of the materials for the fabrication to systems engineering and integration of all packages within appropriate platforms. The experience and competitiveness of our projects team in handling the full package consisting of all the Mechanical, Electrical & Instrumentation works has always given us an edge over others.

Engineering Design

Cutech provides Engineering for both onshore and offshore industries including Basis of Engineering, Front End Engineering Design (FEED), Detail Engineering Design, Operating and maintenance manuals and as built documentation services on the following:

- ✔ **Process Engineering:** Process calculations, PFDs, P&IDs and Process Data sheets.
- ✔ **Piping Engineering:** Plot plan, Conceptual layout, Equipment layout, Piping layout, Isometrics, Stress analysis, MTO
- ✔ **Mechanical Engineering:** Pressure vessels, Heat exchangers, Reactors, Skid assemblies
- ✔ **Civil Engineering:** Design calculations, Piling layouts, Structural layouts, Architectural
- ✔ **Electrical Engineering:** Single line drawings, Cable tray routings, Specifications and data sheets.
- ✔ **Instrumentation Engineering:** Hook up drawings, Cable tray routings, Specifications and data sheets

Our driving force is the challenge to bring in improvement and inculcate the habit of experimenting engineering designs.

Services We Offer

Engineering

- ✔ Mechanical Equipment Engineering
- ✔ Structural Engineering
- ✔ Piping Engineering
- ✔ Process / Chemical Engineering
- ✔ Storage Tank Engineering
- ✔ Electrical & Instrumentation Engineering

Procurement

- ✔ Vendor Pre-Qualification
- ✔ Vendor Data Control
- ✔ Material and Equipment Purchasing
- ✔ Expediting
- ✔ Material Management
- ✔ Quality Assurance / Quality Control



Construction

Mechanical

- ✔ Shop fabrication and field installation of piping systems, Tanks, Pressure Vessels, Heat Exchangers.
- ✔ Installation and alignment of equipment.
- ✔ Provision of painting and insulation services.
- ✔ Construction of Marine topside facilities.
- ✔ Construction and Repair of Ship and other seagoing Vessels.
- ✔ Installation, Testing & Commissioning of Drilling Systems.
- ✔ Fabrication of Buoy and other Subsea Components
- ✔ Fabrication & Installation of Metering Skids.



Electrical & Instrumentation

- ✔ Electrical Installation and Construction
- ✔ HV, MV & LV Cables Installation and Termination and Hi-Pot Testing
- ✔ HV Cable Termination using both Cold Shrink & Heat Shrink
- ✔ Fabrication, Installation, Testing & Commissioning of all kinds of Control Panels
- ✔ Switch board Panel and Transformer Installation and Commissioning
- ✔ Bus Dust Installation and Bus Bar Alignment
- ✔ Fibre Optic Cables & Systems Installation
- ✔ Electrical Testing and Inspection
- ✔ Installation of Instrument, Automation and Control System
- ✔ Installation of instrument tubings and pre-commissioning
- ✔ Instrument Testing and Inspection
- ✔ Electrical and Instrumentation Works at anchorage



Cutech can trade individually all the above services and can offer complete project management solutions .Cutech's Project Management services integrate the activities of the engineering, procurement and construction (EPC) functions to meet client expectations and requirements.

OFFSHORE & MARINE SERVICES

Cutech, as a Service provider to Ship Owners and Oil & Gas sectors, provides one stop project management in handling Anchorage & Voyage Repairs, installations and maintenance work, and can do all kind of repairs including specialized services.

ANCHORAGE & OFFSHORE SERVICES

- ✔ Surveys & Repair of Voyage, Afloat, Anchorage
- ✔ Electrical & Instrumentation Engineering Works
- ✔ NDT Services (RT ,UT, MT, PT & Thickness gauging Services)
- ✔ Marine Machinery and piping repairs
- ✔ Technicians to support installation, testing & commissioning activities
- ✔ HT Termination
- ✔ Fibre Optic Termination



TECHNICAL MANPOWER OUTSOURCING & PLACEMENT SERVICES

Cutech has been a major provider of Technical Manpower for Marine, Oil & Gas, Construction and Petrochemical Industries in and around Singapore for almost a decade.

We have Technical experts in all fields whom can be outsourced to work for both short and long term basis. Cutech brings forth this type of service helping you find the right person fit for your job requirement.

We have well experienced and Certified Professionals for the following disciplines

- ✔ **Inspectors:** QA / QC, Welding, Piping, Structural, Painting, NDT, Reliability Engineering, Fabrication, E&I Inspectors etc.
- ✔ **Engineers & Professional:** Electrical Engineers, Instrumentation Engineers, Mechanical Engineers, Fabrication Engineers, Design Engineers, Commissioning Engineer, Civil Engineer, Structural Engineer, Quantity Surveyors, Project Management Team etc.
- ✔ **Technicians:** Electrical Technicians, Instrumentation Technicians, Mechanics, Welders, Fitters, HT Cable Terminators, Commissioning Technicians etc.



CONSTRUCTION PROJECTS:

Cutech offers a wide range of Building Construction Services and are committed to finding innovative and tailored solutions for our customers. Our expertise covers design, supply, installation, testing and commissioning to Residential buildings, Commercial buildings, Factories & warehouses, Institutional buildings etc. Our services include

- ✔ **Civil Engineering & Construction:** Design Services, Detailing & Engineering, Civil Construction services, Project Management and Supervision etc.
- ✔ **Structural Steel Work:** Design of Buildings,/Industrial Structures, Detailing & Engineering, Fabrication & Erection, Authorities Permits and Approvals, Project Management and Supervision.
- ✔ **Electrical:** Design of Electrical systems, Electrical installation and testing, EMA licensing of Electrical installations, Electrical Maintenance & Repair
- ✔ **Solar Energy :** Design of System, Installation & Testing, Repair & Maintenance of Solar
- ✔ **Technical Manpower:** Resident Engineer , Resident Technical Officer, Civil Engineers, Draughtsman, Mechanical Engineers, Welding Inspectors, Project Manager/Engineer, Electrical Technician, QA/QC , Contract Managers , Core trade personnel



TECHNICAL TRAINING & CERTIFICATION

- ✔ ATO -WDA Approved Training Organisation
- ✔ AWS Approved International Agency
- ✔ COJTC (Certified On Job Training Centre) under Singapore ITE-Institute of Technical Education

Cutechs' passion to serve the industry and the quest to develop highly skilled personnel in the field of Quality Engineering and NDT has led us to impart exclusive training courses and certification in this field and to provide continuing education through knowledge updating, skills upgrading, certification and career development to remain right and suitable in the fast changing economy. These programmes are structured to meet the quality system and stringent criteria of the Singapore Workforce Development Agency (WDA) and other International Accreditation Agencies.

All our training courses are conducted by qualified and highly-experienced trainers with up-to-date instructional materials, both locally and overseas. We are conducting day & evening classes at your convenience and time availability.

Cutech has a global network of Training Centers providing training and certification under the applicable standards and requirements

- ✔ SDF Available for the selected courses.

Cutech Offers Courses Mainly In The Following Disciplines.

- ✔ AWS – CWI(American welding Society- Certified Welding Inspector (CWI))
- ✔ AWS-SCWI (Senior Certified Welding Inspector)
- ✔ AWS-CWEngg (Certified Welding Engineer)
- ✔ Welding Inspection (Online Course-cuteLearn)
- ✔ API 510, 570 , 579, 580 & 653
- ✔ Non Destructive Testing Level I,II & III
- ✔ Cathodic Protection Awareness Testing
- ✔ Advanced NDT (PAUT & TOFD) , NDT & Corrosion
- ✔ Welder Training & Testing (AWS Approved Test Facility –ATF)
- ✔ Custom Courses related to Welding, NDT & Electrical Installations
- ✔ ISO Certification & Consultancy



The Training Schedules Run Round the Year and Presently Cutech Is Able To Provide Training Services in the Following Countries

- | | |
|--------------|----------------|
| ✔ Australia | ✔ Pakistan |
| ✔ Bangladesh | ✔ Philippines |
| ✔ Brunei | ✔ Saudi Arabia |
| ✔ India | ✔ Singapore |
| ✔ Indonesia | ✔ Sri Lanka |
| ✔ Malaysia | ✔ Syria |
| ✔ Myanmar | ✔ Thailand |
| ✔ Nepal | ✔ UAE |
| ✔ Oman | ✔ Vietnam |



WELDING CONSULTANCY, TRAINING & TESTING

Our in-depth experience in the field of welding consultancy, training and testing enables us to provide complete welding engineering solutions to our clients. Our engineers are specialized in all welding processes and are trained to handle the various types of material used.

The Welding Engineering & Consultancy Services Range From

- ✔ Selection of materials & welding consumables.
- ✔ Selection of the welding process.
- ✔ Welded joint design.
- ✔ Distortion control.
- ✔ Preparation & approval of WPS & PQR, Welder Qualification.
- ✔ Welding Procedure Witnessing.
- ✔ Welder Training, Testing & Certification for Process,
- ✔ Construction & Marine Industries



Welder Training & Testing

Industrial Welding Training helps welders develop a working knowledge of and learn the theory behind gas and arc welding techniques and equipment. The witnessing of the tests by Accreditation Bodies or by in-house Welding inspectors can be arranged according to the client and project requirement.

Cutech is approved as a Common Welder Qualification Scheme (CWQS) Test Centre under Singapore Welding Society (SWS). This is in compliance with the demands of Process & Chemical Industries in Singapore for Welder Qualification Certification and recertification under PRIMOS.



Cutech is the first and only AWS Accredited Test Facility (ATF) in Singapore.

SOLAR PV ENERGY

Cutech offers Solar PV Energy services like:

- ✔ Roof Mounted PV System
- ✔ Stand Alone PV Systems
- ✔ Solar lighting Solutions
- ✔ Signs and Signals
- ✔ Water Pumping Solutions
- ✔ Remote Monitoring System
- ✔ Chemical Injection Skids
- ✔ Cathodic Protection System



ENGINEERED PRODUCTS & SERVICES

Cutech with its own large facilities in Singapore & India equipped with modern equipment and well experienced work force can provide Engineering, Procurement, Manufacturing, Fabrication, Assembly, Installation and Testing of various kinds of Packages, Modules and Automation Systems used in Offshore and Onshore applications according to the client and project requirements.

Cutech is authorized for Design and Manufacturing **ASME "U" and "UM"** Stamp equipment & **National Board "R"** Stamp for repairs.

Our Products Include:

- ✔ Pressure vessels
- ✔ Storage tanks
- ✔ Heat Exchangers
- ✔ Pump Packages
- ✔ Compressor Package
- ✔ Choke Manifold
- ✔ Metering Skids
- ✔ Manifolds
- ✔ Agitators
- ✔ Jacketed Vessels
- ✔ FRP Lined Storage Tanks
- ✔ Control Panels
- ✔ Cable Trays & ladders
- ✔ Industrial Fans & Valves
- ✔ Air Pollution Control Equipments
- ✔ Material Handling Systems
- ✔ Spares for Cement Plants
- ✔ Any Custom Engineered products
- ✔ Subsea Components



UNDERWATER & DIVING SERVICES

West Squadron Marine Services is a Commercial Diving company part of Cutech Group, Specialized, competent and well equipped with underwater equipment's to undertake various activities in Marine & Offshore Environment.

Our Team of Marine, Construction, Service and Inspection Professionals anticipates and comprehends the complex issues associated with any Marine & Offshore Project with an unique approach with International QHSE Standards

We are a recognized Diving Contractor by Australia Quarantine & Inspection Service Standard.

Ship Maintenance

- ✔ CCTV Inspection
- ✔ Thruster Inspection
- ✔ Foul Cleaning Inspection
- ✔ Propeller Super Polishing
- ✔ Main Hull Cleaning
- ✔ Hole Patching & Fixing
- ✔ AQIS Inspections & Cleaning
- ✔ Underwater Inspection in Lieu of Dry Docking (UWILD)

Offshore / Subsea Services

- ✔ Anode Installations & Inspections
- ✔ Underwater Projects
- ✔ Underwater Cutting, Welding & Installations
- ✔ Welding & Project Consultancy
- ✔ Seabed Survey
- ✔ Protection for Berths, Jetties & Wharves
- ✔ Underwater Demolition
- ✔ Boat Charter Service
- ✔ Training
- ✔ Rescue & Salvage



SOFTWARE/APPLICATION DEVELOPMENT AND CONSULTING

Cutech provides flexible software solutions and delivers quality IT Services to business. Our primary focus is on overcoming the challenges faced by engineering based companies in the oil and gas industry.

As new technologies shape the online space, we ensure that our software solutions become a competitive advantage for your organization. We use modern technologies with years of experience in the field to help you align your business needs so you can sustain high levels of success and concentrate on your core business.

Key Services

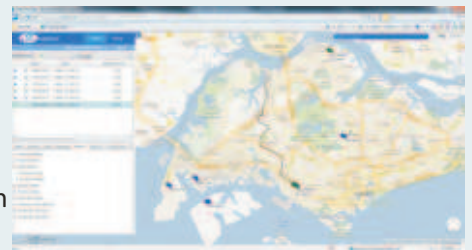
- ✔ Asset Integrity Management, QA/QC, Material Control software products
- ✔ GIS and Data Management services



Software Products

Cutech provides both off-the-shelf software products, and also highly customized solutions that help to manage your organization's assets in an integrated environment.

- ✔ **cuteQM** – Quality Management Solution (Piping, Electrical, Mechanical, Structural, Pressure Vessel, Heat Exchanger & Tanks) & Material management
- ✔ **cutePMS** – Project Monitoring Solution
- ✔ **cuteTrac** – Vessel/Vehicle/Motorcycle/Asset/Personal - GPS Tracking Solution
- ✔ **cuteOffice** – HR, Time Attendance, Purchase, Material Accounting & Office Automation



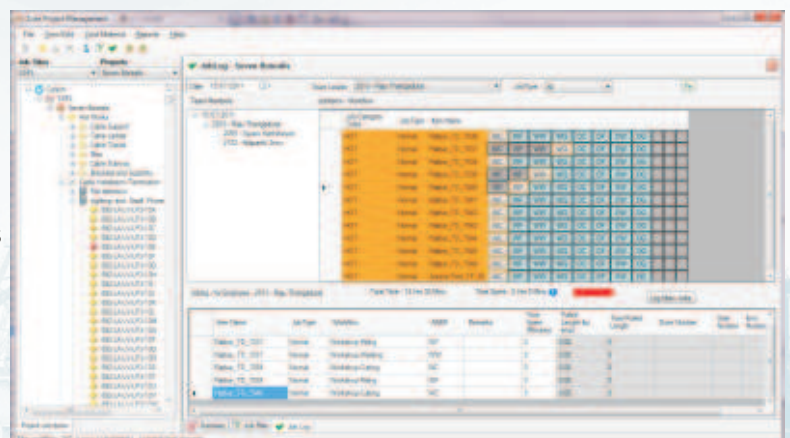
Cutech also specializes in high quality custom application development for your specific requirements within the specific project time frame. Our highly experienced consultants can help you architect the solutions to best fit your technological requirements.

GIS And Data Management

We are well positioned to assist with various data integration projects, having unrivalled experience in all aspects of digital petroleum data preparation, data integration, GIS and web-based services.

Other Product Lines

- ✔ Assets / Calibration Management
- ✔ Online Test Services
- ✔ Personnel Qualification Validity and Renewal
- ✔ Vendor / Supplier Evaluation Station
- ✔ Welder Qualification and Performance Analysis
- ✔ NDT Records
- ✔ Document Management System



OUR KEY CLIENTS

The extensive and exclusive services offered by Cutech with an excellent track record of customer satisfaction have made us a **One Stop Service Provider** for reputable companies around the globe. The following organizations have experienced the world class services we offer.



CUTECH SOLUTIONS & SERVICES PTE.LTD.
CUTECH MARINE SERVICES PTE.LTD.
CUTECH PROCESS SERVICES PTE.LTD.
CUTECH QUALITY SOLUTIONS PTE.LTD.

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