



ABSCO

Air Conditioning Balancing Services Company

-  info@absco.com.sa
naseer@absco.com.sa
-  www.absco.com.sa
-  +966-5502-63277 - (+966)114602050
-  **Office No 05, Al Sahafa District
Riyadh 13321 - KSA**

-  [ABSCO](https://www.linkedin.com/company/absco)
-  [@ABSCO_KSA](https://twitter.com/ABSCO_KSA)
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ABSCO *PROFILE*



ABSCO
AIR & WATER BALANCING



ABSCO SERVICES

- 1- Testing Adjusting And Balancing.
- 2- Mechanical Testing And Commissioning.
- 3- Electrical Testing And Commissioning.
- 4- Building System Commissioning For Green Building (LEED).
- 5- Operation And Maintenance Manual.



ABSCO PROFILE

Company Overview

Air conditioning balancing services company (ABSCO) is proud of its 13 years' services in Saudi Arabia to meet the needs for professional and specialized engineering services for its clients and to advance the quality of the constructed environment while managing the process as effectively and efficiently as possible. Our ability to deliver results and build long-term partnerships with our customers is a fundamental part of our business.

Air Conditioning balancing services Company (ABSCO) has an extensive and relevant experience in implementing Testing and Balancing of HVAC Systems and Commissioning of Electromechanical Systems, starting from by pre checking of the system before the operation of the system, and then by using the specialized equipment in the field to completely commission the different systems and equipment in order to verify its functionality and meet the objectives pursued by the project.

1- Testing Adjusting And Balancing

- **Testing**

Testing is the base of our business, whether it is in new construction, with new chillers, boilers, air handlers, exhaust fans, circulating pumps, or already existing buildings. We are capable of performing all the testing requirements for these systems.

- **Adjusting**

Adjusting is the process of adjusting total volumes at fans or main branches in order to achieve the specified Air flows and air patterns at the terminal equipment.

- **Balancing**

Balancing is the process of regulating dampers or circuit setters to proportion the flows to the actual design values. If design values are not able to be met, then further testing is done

to determine root problems and solutions The services provided Air Conditioning Balancing Company (ABSCO) by under this field are:

- Complete air and hydronic testing and balancing of large, medium and small commercial air conditioning systems (i.e. VAV, multi-zone, double-duct, single zone with reheat systems).
- Balancing air and water distribution systems.
- Adjusting the total system to provide the specified quantities.
- Performance testing of clean room systems.
- Testing hospital systems with special requirements (i.e. surgery, isolation, sterile rooms).
- Indoor Air Quality (IAQ) Measurements.
- Duct pressure testing for leakage.
- Outside air CFM adjustment.
- Performing accurate electrical measurements.
- Establishing quantitative performance of all equipment.
- Verifying automatic controls.
- Measurement of sound and vibration levels.



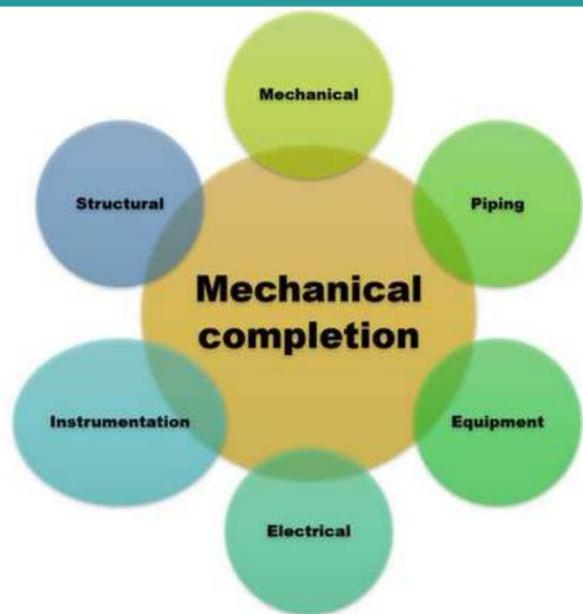
2- Mechanical Testing And Commissioning

The objectives of commissioning the mechanical system is to ensure that the systems and equipment are installed in accordance with the contract documents and that they operate as intended by the project design team.

Regular inspections need to be conducted and system operational tests need to be designed and executed to adequately prove that the entire system meets these requirements.

Our services in this field include commissioning of the following mechanical systems:

- Air Conditioning Systems.
- Heating Systems.
- Cooling Systems.
- Refrigeration Systems.
- Domestic and Drainage Systems.
- Piping Systems.
- Ventilation Systems
- Building Control and Management Systems.



3- Electrical Testing And Commissioning

- **Electrical Installation Testing:**

An electrical installation is the wiring system of a building from the mains position to items of electrical equipment, sockets, light fittings and everything in between and is the system in which all the electrical equipment is, or may be, electrically connected to a common source of electrical energy.

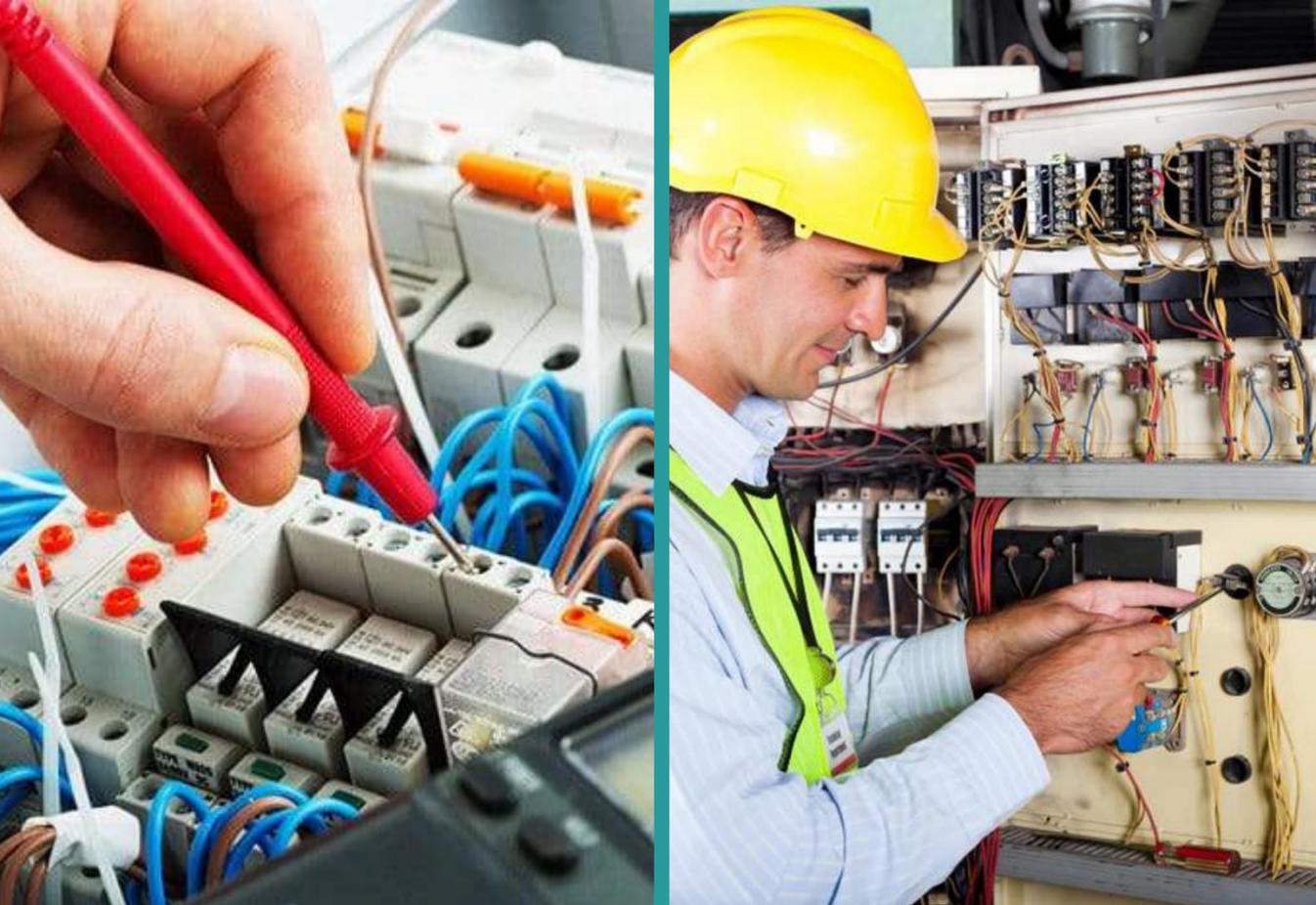
All aspects of the electrical installation are inspected and tested for strength, integrity and compliance with (the IEE Regulations BS7671 or International Electrical Testing Association NETA) in force at the time the system was installed and to the current regulations where applicable.

Our Scope could vary upon request we can carry the tests at all or we can supervisor the test

carried by others and submit test report.

Inspection and Test for Low Voltage Installations

1. Power sources test: LV transformers 11Kv/400 v, Standby generators, UPS.
2. Cables: Insulation resistance test, continuity, dielectric, current carrying capacity, voltage drop.
3. Electrical Switch-gears, Panel boards, Power factor correction and MCC Panels.
4. Continuity of protective conductors including main and supplementary bonding and Continuity of ring final circuit conductors.
5. Earth fault loop impedance (Socket outlets).
6. Earth electrode resistance.
7. Circuit breaker & Protective devices: discrimination and cascading, RCD.
8. Prospective fault current & short circuit current.
9. Phase sequence.
10. Polarity (Socket outlets).
11. Lighting system (Lux) including Emergency lighting and Exit sign.





Electrical Testing And Commissioning

- **Inspection and Test for Low Current Installations**

12. Fire alarm system.
13. CCTV.
14. BMS.
15. Public Address.
16. Door Access.
17. Audio visual systems.
18. Data & telephone systems.
19. Security systems.

Functional Test of System / Equipment

20. Lightning Protection System.
21. Digital Multi function Power Meter.
22. Digital Power Analyzer.
23. Bus way System.
24. Equipment and appliances.
25. Elevators and Escalators.

- **Portable Appliances Test (PAT)**

A portable appliance is classed as any piece of equipment which can be connected to the common supply by means of a plug and socket arrangement (be it 13-amp or any other). It must be maintained to be safe at all times.

We use extremely accurate test instruments to carry out Portable Appliance Testing (PAT electrical testing). Remember; the objective of this exercise is to maintain electrical safety and prevent risk of fire or shock. You can feel secure in the knowledge that the task has been undertaken thoroughly; the safety of you and your colleagues will not be compromised.

- **Periodic Test**

All electrical installation systems required to be periodic check as specified in international standards for each kind of buildings.

4- Building System Commissioning For Green Building (LEED)



ABSCO is a qualified authority for providing commissioning services for green buildings.

ABSCO is providing the following services:

- Owners project Requirement Document.
- Design Review Report
- Review of Submittal
- Commissioning Plan
- Verification of the installation and performance of the systems.
- Complete Commissioning Report
- Preparation of Operation and Maintenance Manuals
- Review systems operation after the end of the defects liability period.





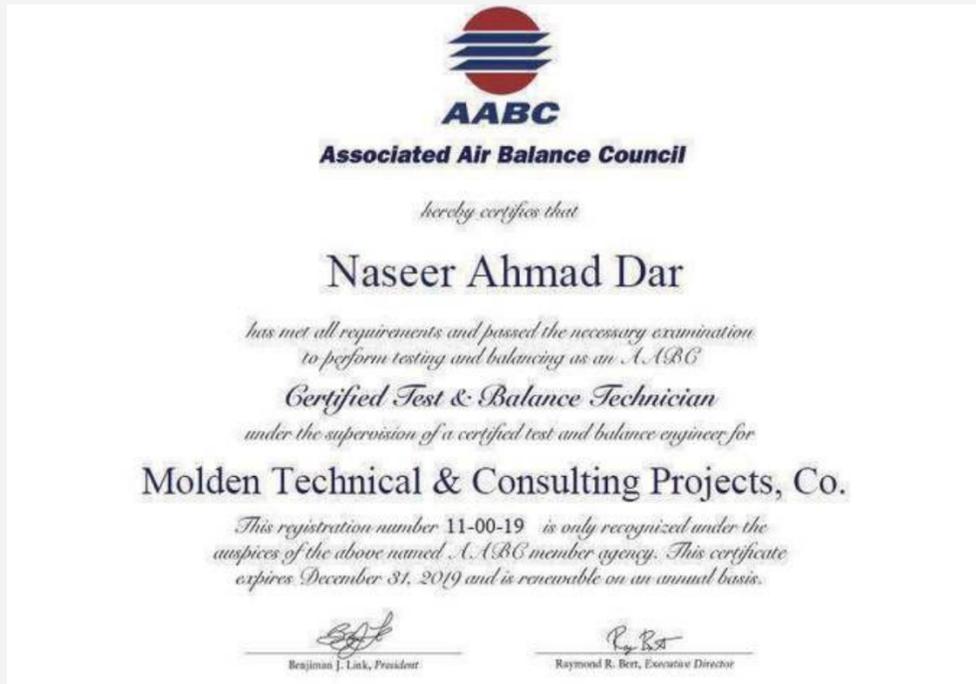
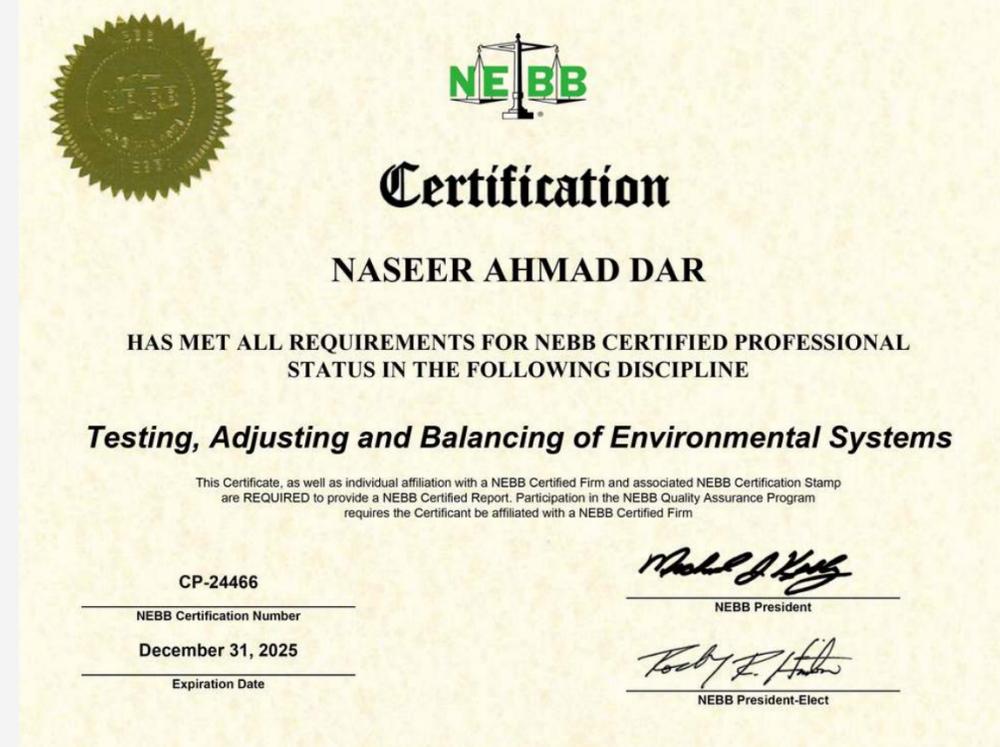
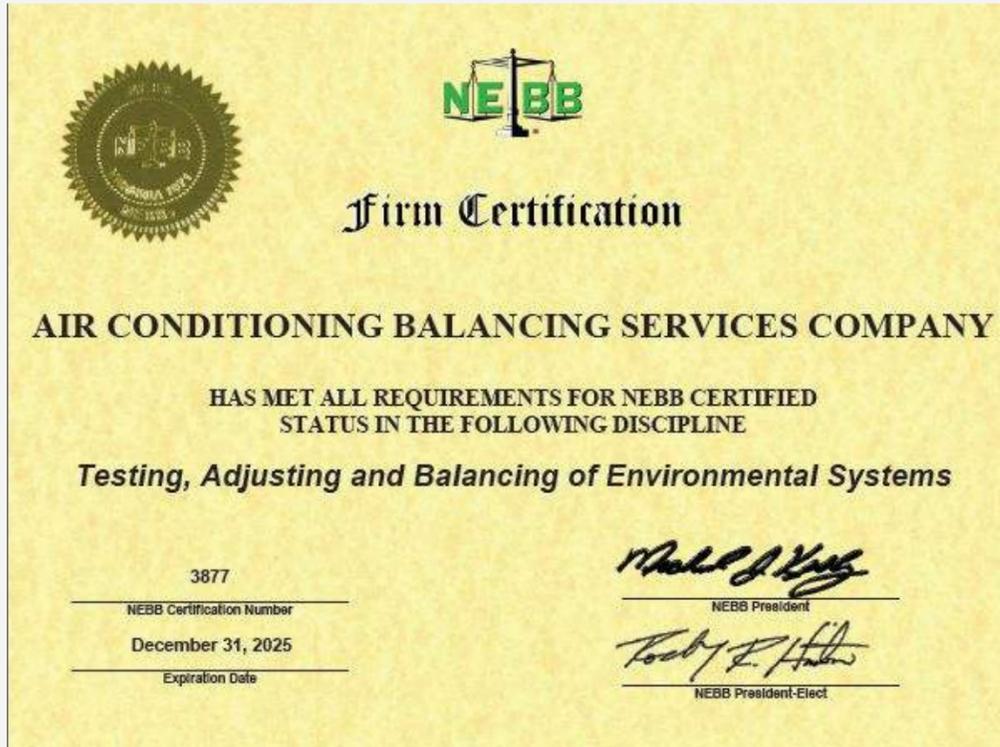
O & M

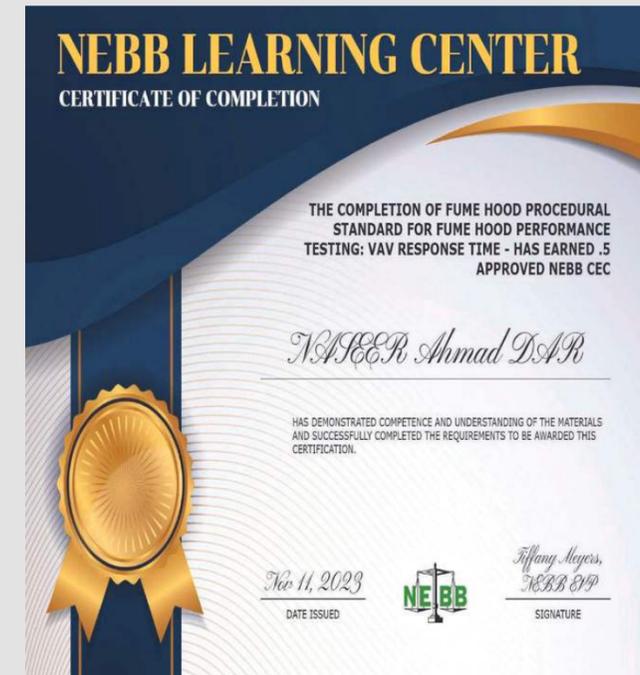
5- Operation And Maintenance Manual.

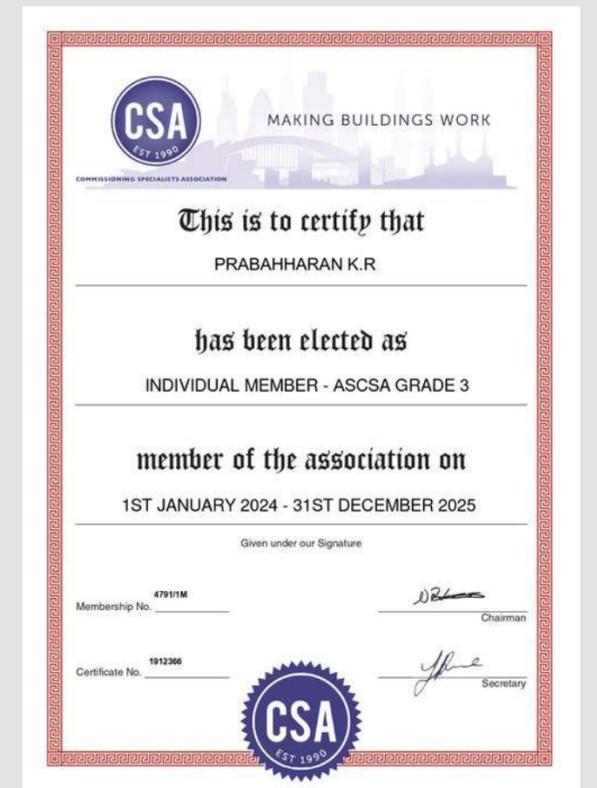
ABSCO is also specialized in preparing operation and Maintenance manuals and in accordance to international standards. O&M Manuals of the systems include System Description, Catalogues and Approved Submittals, Installation Instruction, Operation Instruction, Maintenance Instruction, Testing and Commissioning Reports & Supplier Contact Details & Warranty Letters and other related information for helping maintenance staff to operate and maintain the various systems at the highest possible efficiency.



ABSCO International Certifications









NEOM Bay Airport Terminal-B



DR.Soliman Fakeeh Hospital-Madinah



Care Medical Riyadh Hospital



Honeywell Facility Spark - Dammam



Saudi Airline offices



kudu and Mcdonalds 33 Branches

ABSCO PROJECTS



Sultan Military Hospital – Madinah



Security Forces Medical Center



Red Sea Projects – Amana Cont. Co.



Fairmont Ramla Tower



STC Building – MURSALAT – RIYADH



Prince Sultan Military Medical



Dallah Hospital Extension



Retal International School



Al-AMER MALL - ALEHSA



Al Darah Hotel



IKEA



ALHABIB Medical Center



Meeqat 300 bed hospital



Citadiness Abha hotel



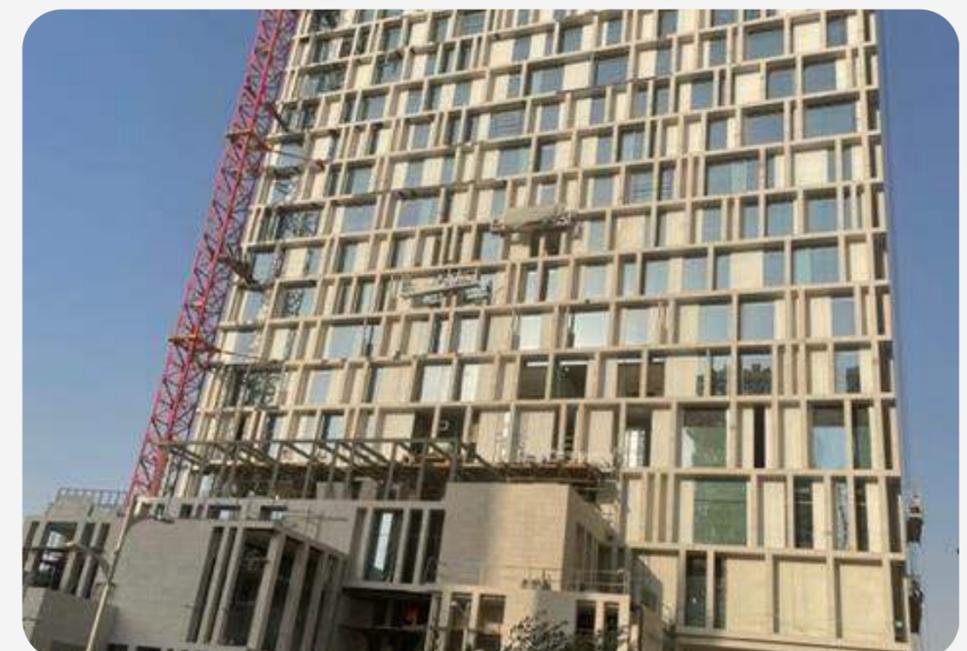
Deriyah Gate Experience Center



Diwan Almuhasaba - Albaha



KAUST Hotel



Novotel hotel - Riyadh



Prince Mansoor Hospital - Taif



Jeddah Admin. Court



Al-Jouf University



Pharmacy College – Tabuk University



Al-Safiyah Park & Museum



King Khalid University (KKU)



SAMASCO Tower



NCB Bank - Alkhobar



Park Inn hotel – Olaya - Riyadh



Modon project –Laysen Valley



High Commission Industrial Security



Madinah Gate Project



Zamil Tower - Riyadh



Office of Executive Affairs - Riyadh



Olayan Hospital - Riyadh



Al-Habib Hospital – Gharb Jeddah



Lulu Hyper Markets - Qassim

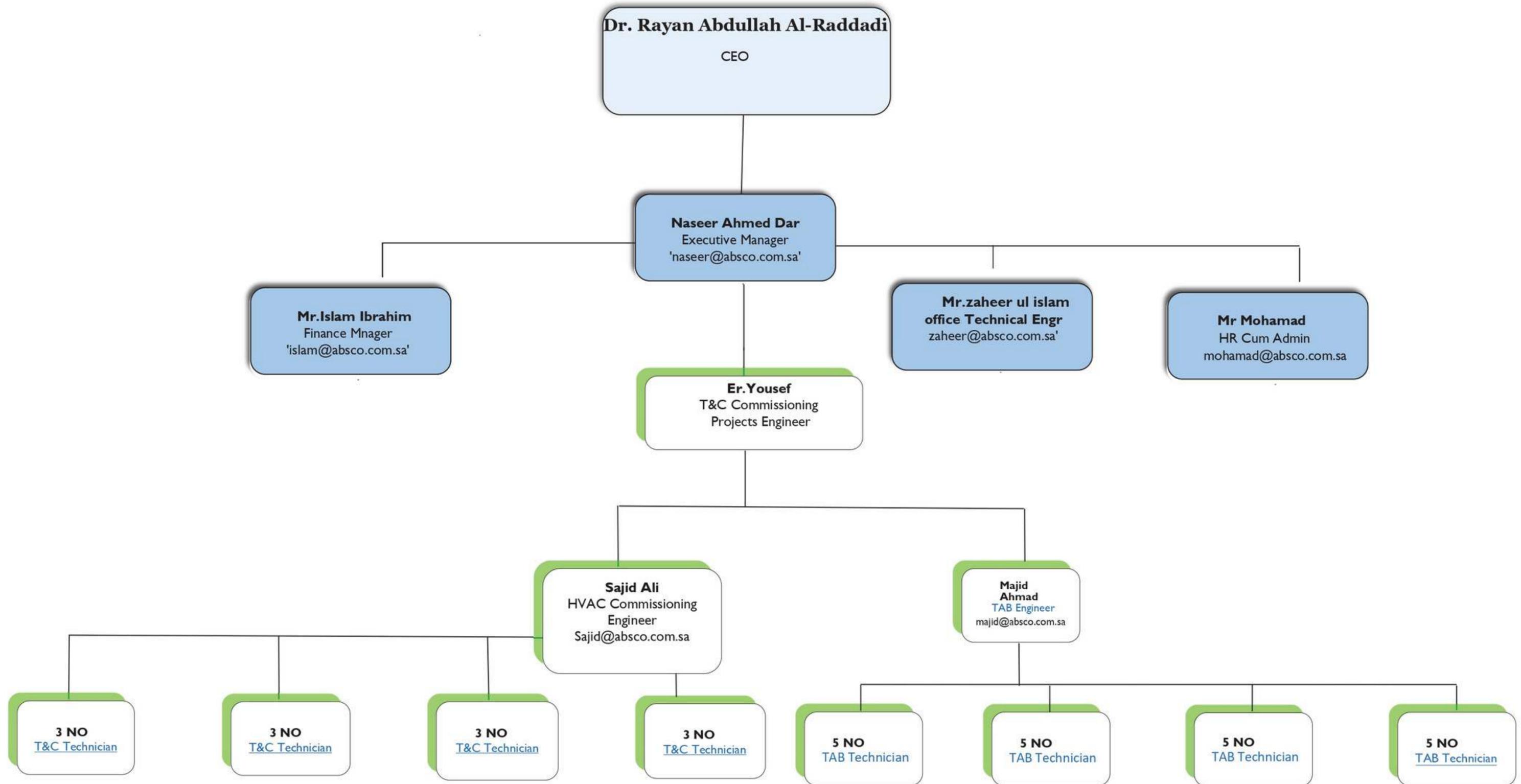


Dallah hospital - Namar

COMPLETION CERTIFICATES



ABSCO SITE SPECIFIED OVERALL T&C-TAB ORGANIZATION CHART



clients

مجموعة بن لادن السعودية
SAUDI BINLADIN GROUP







THANK YOU

*We look forward to working
with you*

OFFICE

- Office No 05, Al Sahafa District



Riyadh 13321 - KSA

- Our Branch : 3035 Alsalama - Al-Fayhaa
7938 - Mecca - KSA



+966 55 026 3277



www.absco.com.sa

