

# ABSCO

**Air Conditioning Balancing Services Company** 

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  - <u>ABSCC</u>

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# ABSCO PROFILE



# 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.

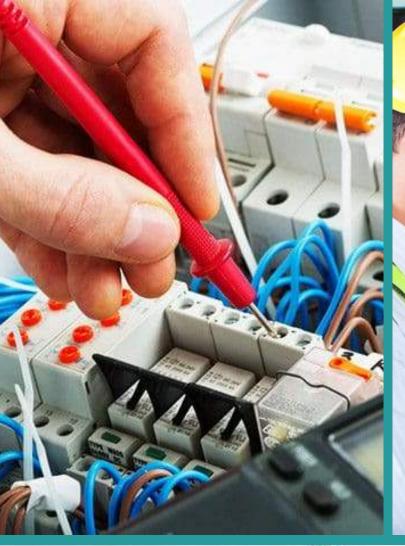
Regular inspections need to be conducted and system operational tests need to be designed and executed to adequately prove that the entire system

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

- Air Conditioning Systems.

meets these requirements.

- 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.





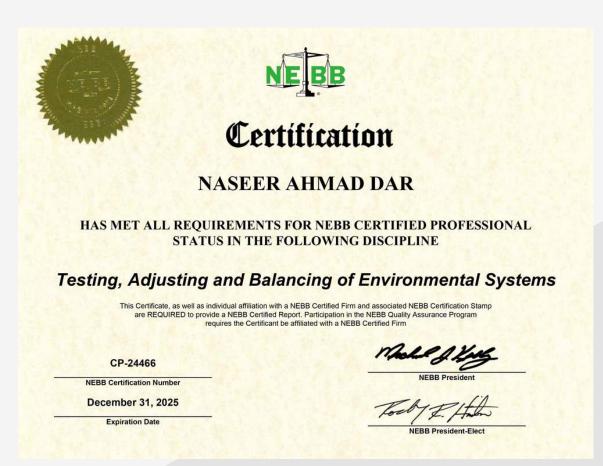
### 5- Operation And Maintenance Manual.

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

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









Associated Air Balance Council

hereby certifies that

#### Naseer Ahmad Dar

has met all requirements and passed the necessary examination to perform testing and balancing as an AABG

Gertified Test & Balance Technician under the supervision of a certified test and balance engineer for

Molden Technical & Consulting Projects, Co.

This registration number 11-00-19 is only recognized under the auspices of the above named AABC member agency. This certificate expires December 31, 2019 and is renewable on an annual basis.







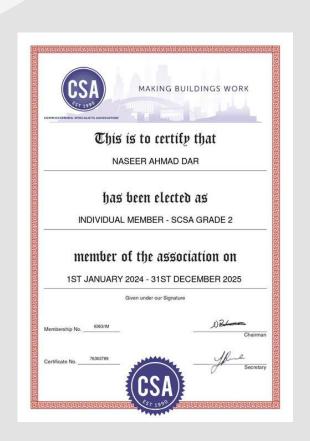




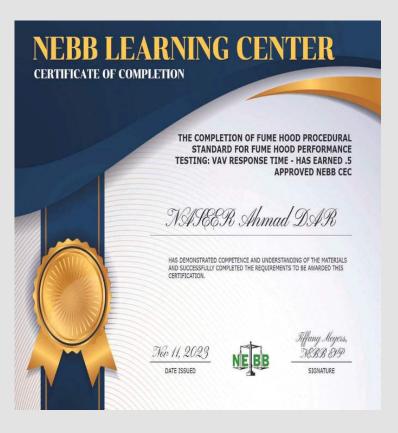














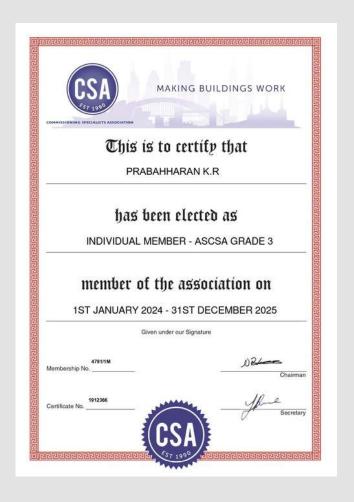
















**NEOM Bay Airport Terminal-B** 



**Honeywell Facility Spark - Dammam** 



**DR.Soliman Fakeeh Hospital-Madinah** 



**Saudi Airline offices** 



**Care Medical Riyadh Hospital** 



kudu and Mcdonalds 33 Branches

# ABSCO PROJECTS





**Sultan Military Hospital – Madinah** 



**Fairmont Ramla Tower** 



**Security Forces Medical Center** 



STC Building – MURSALAT – RIYADH



Red Sea Projects-Amana Cont. Co.



**Prince Sultan Military Medical** 





**Dallah Hospital Extension** 



**Al Darah Hotel** 



**Retal International School** 



**IKEA** 



**AI-AMER MALL - ALEHSA** 

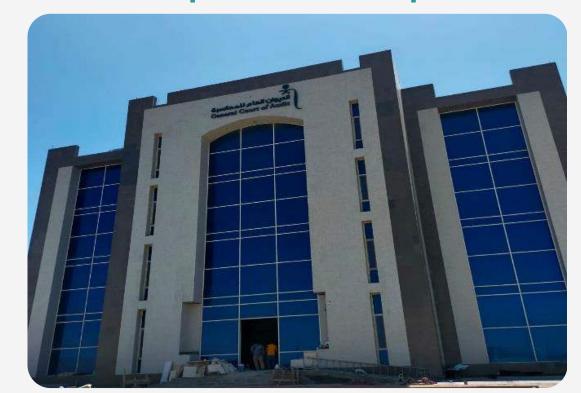


**ALHABIB Medical Center** 





Meeqat 300 bed hospital



Diwan Almuhasaba - Albaha



**Citadiness Abha hotel** 



**KAUST Hotel** 



**Deriyah Gate Experience Center** 



**Novotel hotel - Riyadh** 





**Prince Mansoor Hospital - Taif** 



**Pharmacy College – Tabuk University** 



**Jeddah Admin. Court** 



Al-Safiyah Park & Museum



**Al-Jouf University** 



**King Khalid University (KKU)** 

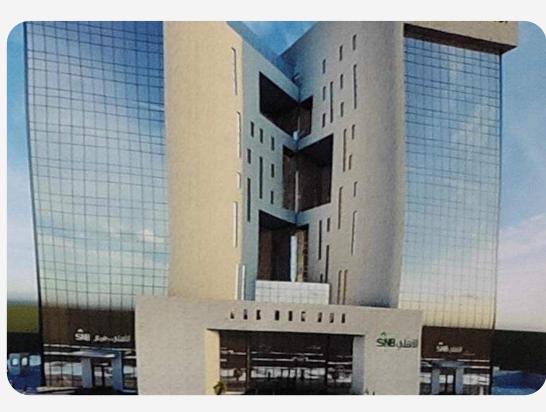




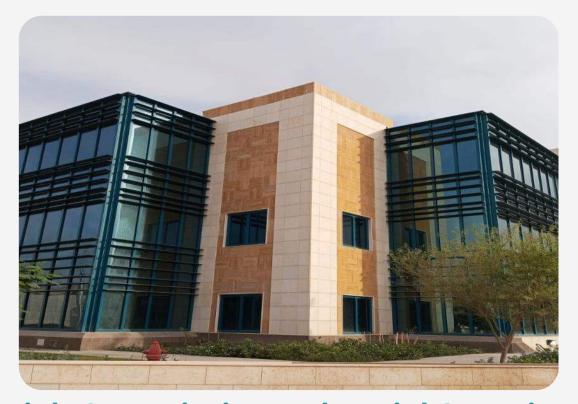
**SAMASCO Tower** 



Modon project -Laysen Valley



**NCB Bank - Alkhobar** 



**High Commission Industrial Security** 



Park Inn hotel - Olaya - Riyadh



**Madinah Gate Project** 













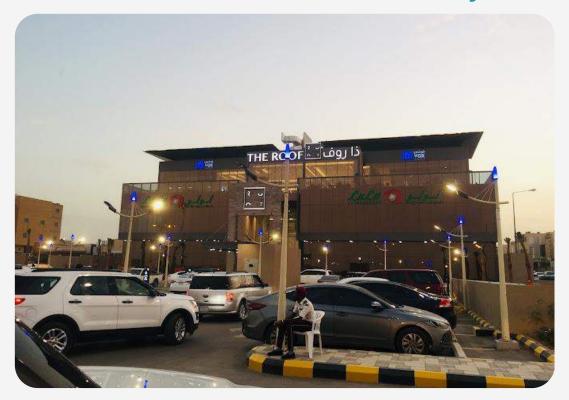
**Zamil Tower - Riyadh** 



Al-Habib Hospital – Gharb Jeddah



**Office of Executive Affairs - Riyadh** 



**Lulu Hyper Markets - Qassim** 



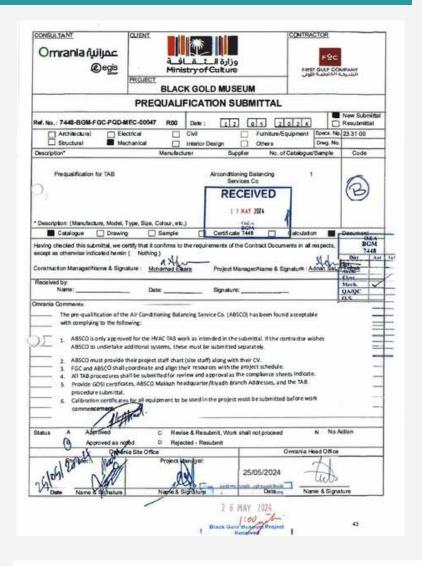
**Olayan Hospital - Riyadh** 



**Dallah hospital - Namar** 

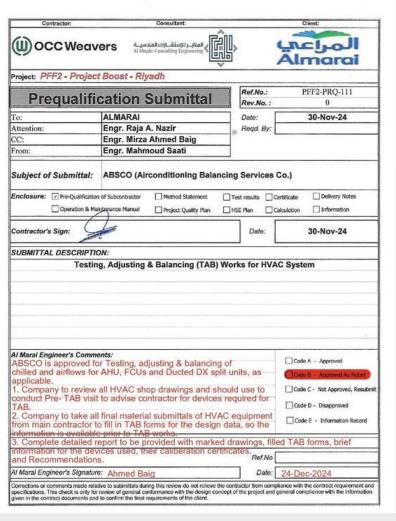
# ABSCO APPROVALS



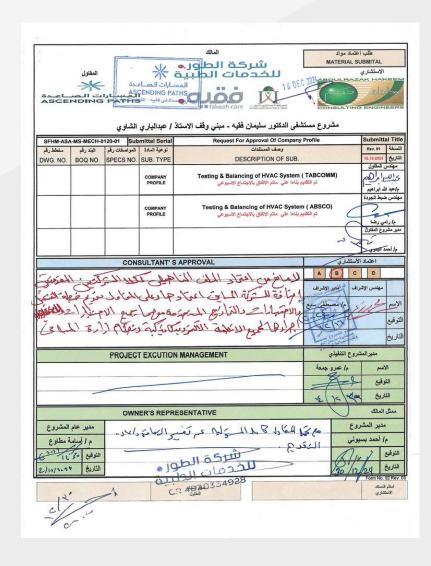


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# COMPLETION CERTIFICATES











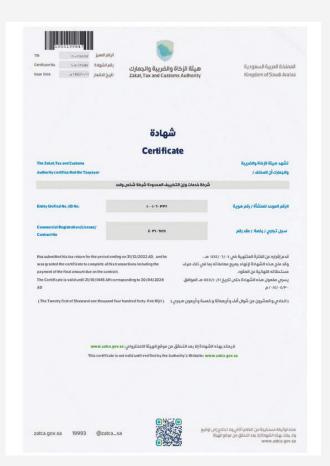




# LOCAL GOVERNMENT CERTIFICATES SECONDARY













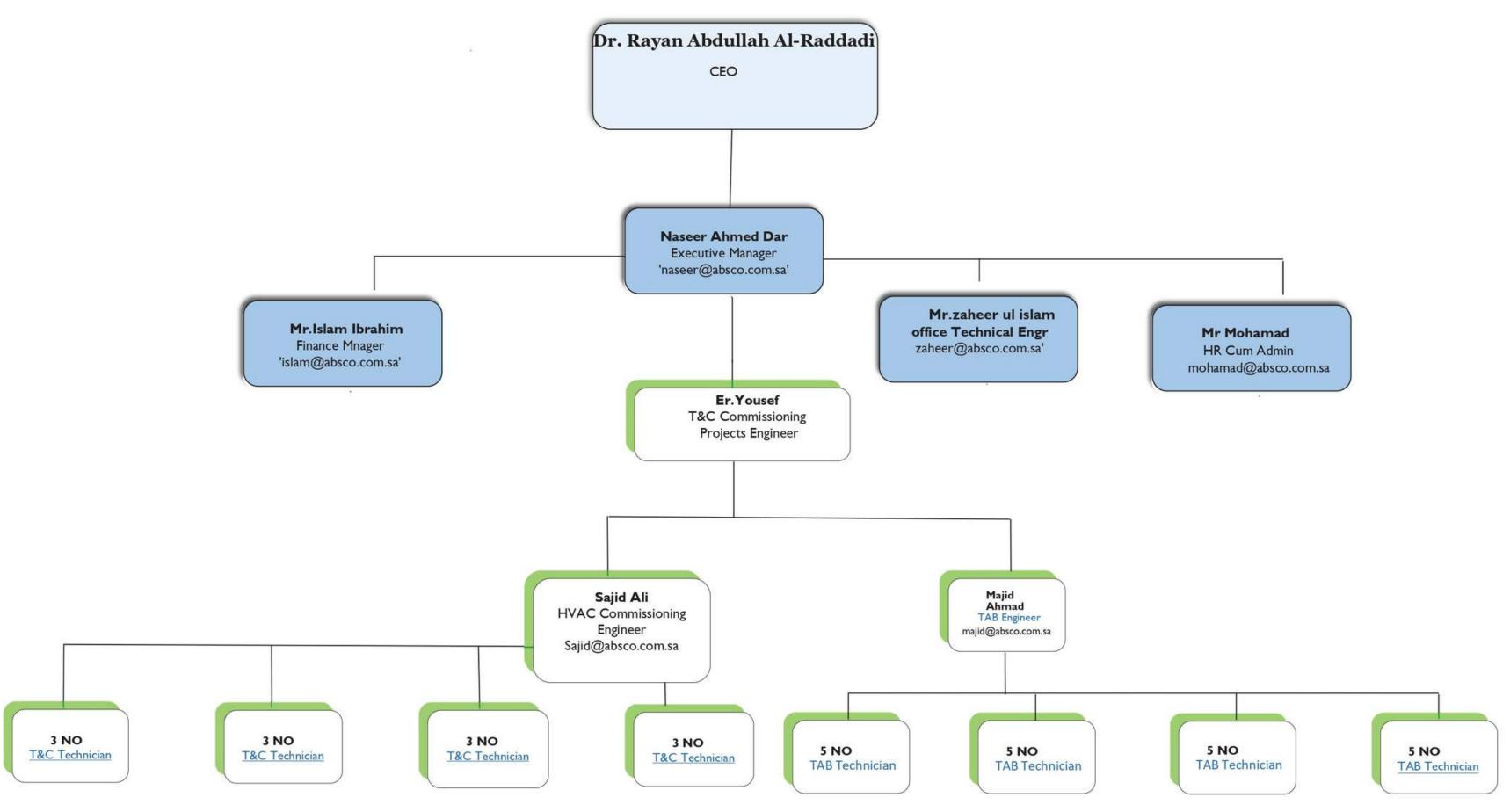






#### ABSCO SITE SPECIFIED OVERALL T&C-TAB ORGANIZATION CHART





































































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We look forward to working with you

#### **OFFICE**

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Riyadh 13321 - KSA

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



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