

Abu Dhabi Occupational Terms

إشتراطات أؤوظبي المهنية

ADOT Abu Dhabi Occupational Terms



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الإصدار الأول

Occupation: Medical Waste
Treatment Plant Operator
Term: Operate and Maintain
Medical Waste Treatment
Facilities. A Medical Waste
Treatment Plant Operator does
related work as required.

المهنة:

الإشتراط:



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1 About the Abu Dhabi Quality & Conformity Council

The Abu Dhabi Quality and Conformity Council (QCC) was established by law No. 3 of 2009, issued by His Highness Sheikh Khalifa Bin Zayed Al Nahyan, President of the UAE. QCC is responsible for the development of Abu Dhabi Emirate's Quality Infrastructure, which enables industry and regulators to ensure that products, systems and personnel can be tested and certified to UAE and International Standards.

Products certified by QCC receive the Abu Dhabi Trustmark. The Trustmark is designed to communicate that a product or system conforms to various safety and performance standards that are set by Abu Dhabi regulators.

2 Foreword

The QCC Hazardous and Medical Wastes Occupational Standards Working Group was initiated in Quarter Four/2015 in order to increase the quality, efficiency, health and safety factors for Environmental Service Providers in terms of experience, training skills and education in the Emirate of Abu Dhabi.

What is meant by Occupational Standards? In this context: professional standards specialist personnel should have. The Government of Abu Dhabi, under the leadership of His Highness Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE and Ruler of Abu Dhabi, and His Highness Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi, Deputy Supreme Commander of the UAE Armed Forces and Chairman of the Abu Dhabi Executive Council, has invested heavily and at high levels of professionalism and safety in the Infrastructure of Abu Dhabi. Therefore, it was crucial and mandatory to have skilled workmanship to maintain the infrastructure value and continue working on developing it in the Emirate of Abu Dhabi in Particular and the United Arab Emirates in general.

1 نبذة عن مجلس أبوظبي للجودة والمطابقة:

تم تأسيس مجلس أبوظبي للجودة والمطابقة بموجب القانون رقم 3 لعام 2009 الذي أصدره سمو الشيخ خليفة بن زايد آل نهيان رئيس دولة الإمارات العربية المتحدة حاكم إمارة أبوظبي. ويُعدُّ المجلس مسؤولاً عن تطوير البنية التحتية للجودة في إمارة أبوظبي التي من شأنها تمكين قطاع الصناعة والجهات التنظيمية من ضمان إمكانية اختبار واعتماد المنتجات والأنظمة والأيدي العاملة بها طبقاً للمواصفات الإماراتية والعالمية.

تحصل المنتجات المعتمدة من المجلس على علامة أبوظبي للثقة والتي تم تصميمها لتأكيد أن هذا المنتج أو النظام مطابق لمعايير الأداء والسلامة المختلفة المحددة من قبل الجهات التنظيمية في إمارة أبوظبي.

2 تمهيد:

تم تشكيل فريق عمل اشتراطات مهنية لعاملي النفايات الخطرة وعاملي النفايات الطبية في الربع الأخير من عام 2015، وذلك لتعزيز الجودة، الكفاءة، مستوى الصحة والسلامة لمقدمي الخدمات البيئية من حيث الخبرة، المهارات التقنية والتعليم في إمارة أبوظبي.

ما المقصود بالمواصفات المهنية؟ يقصد بها في هذا السياق المواصفات المهنية المطلوب توفرها لدى العاملين الاختصاصيين في كافة المجالات. إن حكومة إمارة أبوظبي بقيادة صاحب السمو الشيخ خليفة بن زايد آل نهيان، رئيس دولة الإمارات العربية المتحدة وحاكم إمارة أبوظبي، وسمو الشيخ محمد بن زايد آل نهيان، ولي عهد أبوظبي، نائب القائد الأعلى للقوات المسلحة الإماراتية، رئيس المجلس التنفيذي لإمارة أبوظبي، قد قامت بالاستثمار بكثافة وبدرجات عالية من الاحتراف المهني والأمان في قطاع البنية التحتية للإمارة، فكان لزاماً توفر العمالة الماهرة بهدف الحفاظ على قيمة البنية التحتية والعمل على تطويرها في إمارة أبوظبي بشكل خاص وفي دولة الإمارات العربية المتحدة بصفة عامة.



3 Acknowledgements

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4 Occupational Terms

Occupation	Medical Waste Treatment Plant Operator		المهنة				
Unit Standard Title	Medical Waste Treatment (Level 2)		المسمى الوظيفي القياسي				
Unit Descriptor	This standard specifies the outcomes required to operate Medical Waste Treatment Plant Operations. It requires the ability to supervise work activities in Medical Waste treatment plant		توصيف المهنة				
Unit Type	<input type="checkbox"/> Knowledge and Skills OR <input checked="" type="checkbox"/> Application						
Elements	<table border="1"> <thead> <tr> <th>No.</th> <th>Element</th> </tr> </thead> <tbody> <tr> <td>E1</td> <td>Verification of progress and quality of Medical Waste handling, storage, packaging, labeling, marking, and treatment/disposal requirements</td> </tr> </tbody> </table>	No.	Element	E1	Verification of progress and quality of Medical Waste handling, storage, packaging, labeling, marking, and treatment/disposal requirements		
No.	Element						
E1	Verification of progress and quality of Medical Waste handling, storage, packaging, labeling, marking, and treatment/disposal requirements						
QF Emirates Level	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10						
Function	<input type="checkbox"/> Policy and Strategy QF 9-10 <input type="checkbox"/> Managing QF 7-8 <input type="checkbox"/> Specifying QF 6-7 <input type="checkbox"/> Controlling QF 6 <input type="checkbox"/> Maintaining Capability QF 4-6 <input checked="" type="checkbox"/> Performing/carry out QF 1-4						
Entry information and Prerequisites	Higher Secondary Certificate or Diploma						
Grading	Knowledge and Skills: <input type="checkbox"/> Pass/Fail <input type="checkbox"/> Percentile 100%: ____% Application Units: <input checked="" type="checkbox"/> Competent/Not Yet Competent						
Sector	Waste Management		القطاع الصناعي				

<p>Developed by</p>	<p>Government Sector: UAE Ministry of Climate Change and Environment, UAE Ministry of Health and Prevention, The Center of Waste Management-Tadweer, Environment Agency, Health Authority, Department of Municipal Affairs and Transport, Abu Dhabi Occupational Safety and Health Center, Abu Dhabi National Oil Company, Abu Dhabi Health Services Company-SEHA</p> <p>Private Sector: Star International Waste Management LLC – Al Ain Medical Waste Treatment Facility (Incinerator Plant), DureOil Middle East Establishment – Hazardous Waste Engine Oil Recycling Facility , Gulf Sail Engineering Corrosion Services Establishment, Green Mountains Cleaning Services Establishment, Oasis Environmental Solutions, Condor Medical Waste Treatment Co. LLC, New Cleaning Establishment, Cleanco Medical Waste Treatment LLC, Averda Waste Management LLC, Veolia Environmental Services LLC, Al Phamed Abu Dhabi Company Limited LLC, Sita Trashco Environmental Solutions and Waste Management LLC, DulSCO LLC, Bridges Environmental Services Company LLC, TUV – Nord</p>	<p>القطاعات الحكومية: وزارة التغير المناخي والبيئة، وزارة الصحة ووقاية المجتمع، مركز إدارة النفايات-تدوير، هيئة البيئة، هيئة الصحة، دائرة الشؤون البلدية والنقل، مركز أبوظبي للسلامة والصحة المهنية، شركة بتترول أبوظبي الوطنية، شركة أبوظبي للخدمات الصحية-صحة</p> <p>القطاع الخاص: أم بي أم دلة، مجموعة بن بطي، شركة شارع الخليج الهندسية، الجبال الخضراء لخدمات التنظيف، الواحة للحلول البيئية، كوندور لإدارة النفايات الطبية، المؤسسة الجديدة للتنظيف، كلينكو، أفيردا لإدارة النفايات، فيولا لخدمات البيئة، الخياط للاستثمارات، سيتا تراشكو للحلول البيئية، دلسكو، مركز الإمارات للتطوير الفني والسلامة، تي يو في-نورد</p>	<p>الجهات المشاركة</p>
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<p>Version No.</p>	<p>1</p>		
<p>Relevant Occupations</p>	<p>-</p>		<p>المهن ذات الصلة</p>
<p>Links to other occupational standards</p>	<p>ISCO-08 (3132)</p>		<p>روابط لاشتراطات مهنية أخرى</p>
<p>ISCO</p>			<p>التصنيف الدولي القياسي للمهن ISCO</p>

4.1 Key Words and Terms

Word or Term	Definition	الكلمة أو المصطلح	التعريف
Competent Authority	Tadweer (The Center of Waste Management) – Abu Dhabi		
Emirate	The Emirate of Abu Dhabi		
Employer	Any natural or juridical person employing one or more workers in consideration of a remuneration of any kind whatsoever		
Environmental Service Providers	The parties operating in the field of collection, transport, storage, recycling, processing and disposal of wastes		
Establishment	Any economic, technical, industrial or commercial unit in which workers are employed and the objectives of which are to produce or market commodities or to provide services of any kind		
Executive authority	Executive Council of Abu Dhabi		
Government	Government of Abu Dhabi		
Hazardous Substances	Solid, liquid or gaseous substances having properties harmful to human health or adverse impact on the environment such as toxic substances, explosive, flammable, or ionizing radioactive substances		
Wastes	All hazardous and non-hazardous remnants and wastes, including nuclear wastes, disposed of or need to be disposed of, in accordance with the provisions of the law and include: solid wastes, liquid wastes, gaseous wastes, hazardous wastes and medical wastes		
Solid Wastes	Such as domestic, industrial, agricultural, medical, construction and demolition wastes		
Liquid Wastes	produced by domestic, commercial, industrial and other premises		
Gaseous (smoke, vapour and dust) Wastes	Produced by domestic premises, bakeries, incinerators, factories, crushing plants, stone quarries, power stations, oil works and means of transportation and communication		

Word or Term	Definition
Hazardous Wastes	Residues or ash of different activities and operations containing properties of hazardous substances
Medical Wastes	Wastes constituted wholly or partially of human or animal tissues, blood or other body fluids or excretions or drugs or other pharmaceutical products or bandages, needles, syringes, sharp medical objects or any other contagious, chemical or radioactive wastes produced by medical or nursing activities, treatment or health care, dentistry or veterinary and pharmaceutical practices or manufacturing, research, teaching, sample taking or storage
Waste Disposal	Operations not involving extraction or reuse of substances such as burial, deep injection, biological or physical-chemical treatment, permanent storage, destruction or any other method approved by the competent authorities
Waste Handling	All operations from the time of generation of wastes to their safe disposal, including collection, storage, treatment and recycling or disposal
Waste Management	Collection, storage, transportation, recycling and disposal of wastes including the care of disposal sites
Waste Recycling	Operations carried out on wastes, for the extraction or reuse of substances such as use for fuel, extraction of metals and organic substances, soil treatment or waste oil refining
Work	Any human effort, be it intellectual, technical or physical, extended against a remuneration whether the said work is permanent or temporary
Worker	Any male or female person who receives remuneration of any kind for work performed thereby in the services of an employer and under his management or control, even if the employee is off employer's sight. This meaning shall also apply to officials and employees who are in the service of the employer and are subject to the provisions hereof
Segregation	This is the Physical Separation of waste materials, according to their general physical and chemical nature

الكلمة أو المصطلح	التعريف

4.2 معايير الأداء للوحدة

4.2 Performance Criteria for Element

Element	1. Verification of progress and quality of Medical Waste handling, storage, packaging, labeling, marking, and treatment/disposal requirements
Performance Criteria 1.1	EAD /Tadweer Waste Classification Policy & Technical Guideline
Performance Criteria 1.2	Tadweer Licensing and Permitting requirements
Performance Criteria 1.3	Procedure for receiving, handling and storage of Medical Waste.
Performance Criteria 1.4	Collection, Transportation and Storage requirements for Medical Waste
Performance Criteria 1.5	Loading of waste into the treatment unit.
Performance Criteria 1.6	Operation of the plant equipment, including start-up and shut-down procedure.
Performance Criteria 1.6	Operation and Testing of control, alarm, and instrumentation systems.
Performance Criteria 1.7	Operation of the plant equipment, including start-up and shut-down procedures.

Performance Criteria 1.7	Optimum operating temperatures, pressures, concentrations of emissions, speeds, flows, etc., and maintenance of correct conditions.
Performance Criteria 1.8	Detection of defects or malfunctions (following written procedures) and servicing.
Performance Criteria 1.9	Immunization requirements as per World Health Organization & Health Authority Abu Dhabi for Medical Waste Operator
Performance Criteria 1.10	Safe removal and disposal of residues and ashes.
Performance Criteria 1.11	Daily, weekly, monthly, semi-annual, and annual tests, inspection, cleaning, lubrication, replacement and replenishment of consumables (e.g. thermocouples), and overhaul, with special attention to major components of the installation; appropriate action when necessary.
Performance Criteria 1.12	Use of protective equipment; personal hygiene.
Performance Criteria 1.13	Fire precautions.

Performance 1.14	Criteria	Procedures for emergency response, including manual operation of the plant under emergency conditions; dealing with spillages, accidents, and other incidents.
Performance 1.15	Criteria	Contingency plans for implementation during breakdown or planned maintenance.
Performance 1.16	Criteria	License conditions and regulations governing emissions.
Performance 1.17	Criteria	Record-keeping and Manifestation.
Performance 1.18	Criteria	Reporting of spillages, accidents, and other incidents.
Performance 1.19	Criteria	General functioning of the treatment facility, including heat recovery and flue-gas cleaning technologies, wherever appropriate.
Performance 1.20	Criteria	Health, safety and environmental implications of treatment operations.
Performance 1.21	Criteria	Technical procedure for operation of the plant.

Performance 1.22	Criteria	Emergency response in case of equipment failures and alarms.
Performance 1.23	Criteria	Maintenance of the plant and record-keeping.
Performance 1.24	Criteria	Surveillance of the quality of ash and emissions, according to the specifications.
Performance 1.25	Criteria	Requirements for the handling, collection, transportation, storage and treatment/disposal of Chemical Waste generating from Health Care Facilities only

4.3 المعرفة والاستيعاب

4.3 Knowledge and understanding

To perform effectively you need to know and understand:

1. Appropriate action required in the event of emergency or fire.
2. Regulatory and Statutory requirements relating to you duties as a Medical Waste Operator.
3. Occupational health, safety and environment protection procedures.
4. Procedural requirements for handling, packaging, labeling and marking of Medical Waste.
5. Principles for effective communication with co-workers.
6. Procedures to follow promptly and effectively in the event of accidents, incidents, or ill health during handling of Medical Waste.
7. Operating and monitoring computerized control systems, machinery and related equipment of Medical Waste Treatment Facility.
8. Inspecting Equipment and Monitoring operating conditions of Medical Waste Treatment Facility.
9. Performing security and safety checks of Medical Waste Treatment Facility.

4.4 Additional Information

4.4 معلومات إضافية

4.5 Scope / range related to performance criteria

The scope relates to Handling of Medical Waste Treatment Facility

It is possible that a Medical Waste Operator is required to perform work duties while operating Medical Waste Treatment Facility; therefore, the Medical Waste Operator must understand all types of Medical Waste Facilities operation and maintenance requirements that may be used in their role, and the communication, contingencies and constructive feedback may include:

- Communication may be:
 - Face-to-face
 - In community languages
 - Oral via an interpreter
 - Visual
 - With groups
 - With individuals
 - Written
 - Assertive but not aggressive
- Contingencies may include:
 - Accidents and incidents
 - Lack of availability of personnel
 - Hazards and Risks
 - Team dynamics and conflict
- Constructive feedback may include:
 - Comments from your management, team members, or interested parties on work performance
 - Suggestions for improving work performance

-
- Workplace assessment

4.6 Scope / range related to skills and knowledge

4.4.2 النطاق / المجال ذو الصلة بالمهارات والمعلومات

Regulatory requirements that must include:

- The applicable laws, rules, guidelines, policies, procedures and practices of Waste Management of the Emirate of Abu Dhabi.
- Abu Dhabi Occupational Safety and Health System Framework (OSHAD-SF).
- Other statutory and/or regulatory requirements that are in force.

Procedures for responding to contingencies may include:

- Apply effective communication skills
- Apply hazard control measures
- Apply problem solving skills
- Assess risk
- Assess aspects and impacts related to Medical Waste
- Postpone or reschedule activity
- Refer to your management
- Seek assistance from emergency services

Face to face and coaching techniques may include:

- Demonstration
- Feedback on work performed
- Visual or oral explanations
- Shadowing other members
- Individual or group instruction

4.7 Behaviours Required

4.4.3 السلوكيات المطلوبة

You must demonstrate that you are:

- Not using any medication or drugs that can cause or lead to dizziness and sleep or will otherwise affect your supervision ability
- Not under the influence of alcohol
- Dressed appropriately, having a professional appearance and a high standard of personal cleanliness and hygiene
- Fit to supervise
- Following the work instructions
- Complying with regulatory, organisational, health and safety procedures
- Learning on the job
- Working effectively as part of a team
- Able to work with passengers from a range of backgrounds
- Demonstrating a friendly and courteous manner
- Able to communicate well and demonstrate good people skills
- Act as a responsible and honest professional

4.8 Design criteria for development of training programs, qualifications and awards

- This standard may be included in entry-level awards for skilled and semi-skilled jobs in Waste Management industry.
- Training providers must customize this standard to meet the training needs, learning preferences and workplace context of individual and groups of workers.
- Site Safety and Environment Protection Procedure:
- Abu Dhabi Occupational Safety and Health System Framework (OSHAD-SF).
- OHS Professional Entity Registration

4.4.4 معايير التصميم الخاصة بتطوير برامج التدريب، التأهيل والنجاح

•

-
- OHS Practitioner Entity Registration
 - Regulatory Framework.
 - Tadweer Policies.
 - Tadweer Technical Guidelines and requirements.
 - WHO Recommendations.
 - Regulatory and Statutory requirements.



5 References

- ISO 14001:2004
- BS OHSAS 18001:2007
- The Centre of Waste Management-Tadweer Policies
- The Centre of Waste Management-Tadweer Technical Guidelines
- EAD /Tadweer Waste Classification Policy & Technical Guideline
- WHO - Safe Management of wastes from Health-care activities 2014
- Regulatory and Statutory Requirements in the Emirate of Abu Dhabi
- Abu Dhabi Occupational Safety and Health System Framework (OSHAD-SF).
- HAAD EHSMS standard Waste Management HAAD/HSED/ST/0016/HS_EHSMS
- HAAD Policy on Medical Waste Management in Health Care Facilities (PPR-HCP-P0002/07)
- Qualification framework by National Qualification Authority (NQA)/ VETAC Q+NOSS System Guidelines 2014.
- OSHAD-SF Mechanism 6.0: Performance and Incident Reporting
- Abu Dhabi National Oil Company Health, Safety and Environment Management System (ADNOC HSEMS).