



# **MOHANNED ABDELGADIR SIRAG**

**Electrical Power Engineer**

**Date of Birth:** 21/5/1995

**Nationality:** Sudanese

**Place of Birth:** Dmazine - Sudan

**Address:** Khartoum \_ Sudan

**Mobile:** +249918844436 - +249123289410

**E-Mail:** [mohaned2015.go@gmail.com](mailto:mohaned2015.go@gmail.com)

## **Education:**

- ❖ B.Sc. of Electrical Engineering (2011 to 2016) University of Al Zaiem Alazhari , Khartoum – Sudan (First class degree)
- ❖ M.Sc. in Electrical Power Systems engineering Khartoum University (2022), Khartoum – Sudan

## **Work experience (2018 to 2022):**

- ❖ Medium Voltage Overhead Lines Maintenance Engineer, which had experience in:
  - Identify Proposed Improvement
  - Investigating Complaints and Suggestions, Interviewing Process Supervisors & operators, completing troubleshooting procedures.
  - Install, Remove and transfer based on the construction standards & customer.
  - Generate design details to provide overview of work to be performed by line/test contractors.

- Supervision at the technician on site to ensure that work is done successfully.
- Achieve the annual maintenance in lines & transformers to be ready for working with rated capacity at any time.

❖ Electrical Engineer (Scada Operation Engineer) in Sudanese Electricity Distribution Company LTD (SEDC), which had experience in:

- monitoring performance of low voltage substations (33KV/11KV), equipment's and recommended improvements
- preparing daily report
- monitoring and oversee team of electricians to ensure they produce quality work
- Black Out Restoration.
- time and 24x7 monitoring and control of the Distribution Power Grid of OMDURMAN City using SCADA and DMS
  - Monitoring of the overall state of the system through SCADA and DMS
  - Ensure that every system parameters (voltage, current, VAr) are within the service level committed to the customers
  - Reports to the concerned group if a critical alarm appears in SCADA for immediate checking/repair
- Management of Planned Outage of Distribution facilities(power transformers ,feeders,etc)
  - Check, prepare, and execute Switching Plans for the safe conduct of jobs by Substation, or Distribution line crew
  - Release System Update advisories through e-mail for the commissioning of new facilities or changes in line set-up

- Management of Unplanned Outage of Distribution facilities(power transformers ,feeders,etc)
  - Performs corresponding restoration protocol for distribution feeder outage, Power transformer or bus differential tripping, Automatic Load Shedding and Total/partial System Blackout
  - Interprets and analyzes the events and alarms that appeared in the SCADA-GUI and employ appropriate restoration/isolation protocol
  - Efficiently utilizes remote-controlled devices and strategic dispatch of field crew in the restoration of healthy portion or isolation of faulted segments to help the company attain reliability indices (SAIFI, SAIDI and MAIFI) requirements
- - Using Arc View (GIS) to assist in the location of faulted segments and the preparation of switching procedures to restore power as quickly as possible.
  - Creates schedule and implements Manual Load Shedding due to Generation deficiency or multiple transmission line outage
- Outage Planning
  - Coordinates with the requesting office for the jobs involving de-energization of Substation, or Distribution equipment/facilities
  - Creates Appropriate Switching Plan for the Planned outage of the involved equipment/facilities
  - Releases advisory to Call Center department for the dissemination of information to the customers which will be affected by power interruption
- Prepare daily system condition report which contains system data about faults, voltage, load, and Planned and Unplanned outages.
- Gives switching procedure, assist and guide field crew thru the use of mobile telephone in the operation and basic troubleshooting of Substation facilities and Distribution facilities:
  - Power Circuit Breaker
  - Power Transformer On-load tap changers (OLTC)
  -

Switchgear - RMU - Load Break Switch - Pole Line Switch - Line Voltage Regulator - Line Recloser - Sectionalizer

- Validation of proposals made by System Analysis and Planning departments
  - Checks feeder breaker and Power transformer loading for the energization of new customers
  - Peruse data for line reconfiguration proposals intended to improve reliability and performance
  - Creates counter proposal if a better alternative is devised
- Training of newly hired and junior level System Operations Engineer

## **Practical Courses:**

- Electrical Power System Concept and Technology (Exemplar Centre)
- Electrical Installation Design (Exemplar Centre)
- GIS (Sudanese Electricity Distribution Company LTD)
- Low Voltage Switchgear (Exemplar Centre)
- Distribution Network Operation (Sudanese Electricity Distribution Company LTD)
- Transformer operation and maintenance training course in (Sudanese Electricity Distribution Company LTD)
- Simulation using Neplan Software for Power Systems Analysis (Sudanese Electricity Distribution Company LTD)
- Integration Fire Alarm & Fire Fighting Systems (Exemplar Centre)
- Simulation using Etap software for Power Systems Analysis (Electrical Transient Analysis program) (Exemplar Centre)
- Principle of Scada system (Sudanese Electricity Distribution Company LTD)

- Occupational Safety and Health Administration (OSHA) (OSHA Academy) which have experience in:
  - Emergency Action Plan
  - Fall Protection Plan
  - Introduction to Ergonomics
  - Electrical Safety for Technician & Supervisors
  - Energy Control Program (Lockout / Tagout)
  - Hazard Communication Program
  - Introduction to Safety Management
  - Personal Protective Equipment
  
- Auto CAD for Electrical Design & Workshop Drawings (Exemplar Centre)
  
- Fault Analysis of Current Distribution in Power Transformers & Generators (Exemplar Centre)
  
- Medium Voltage Switchgear Control & Protection (Exemplar Centre)
  
- Electrical Power Equipment Testing & Commissioning (Exemplar Centre)
  
- Training course in Sudanese Hydro Power Generation Company, which had experience in:
  - Operation & Control of Hydro power station
  - Maintenance electrical faults of machines

### **Other Skills:**

- Tolerance of hard work
- Work with a team
- Fluent speak and Read in Arabic & English
- Good in treat with a computer
- Registered at the Sudan engineering council.
- Registered at the federation of Sudanese engineers.



11.096614

جمهورية السودان  
Republic of Sudan

جامعة الزعيم الأزهرى  
Al- Zaiem Al-Azhari University



0081467

Faculty Of Engineering  
Certificate

This is to certify that the university senate has awarded:

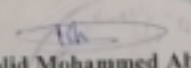
**MOHANNED ABDELGADIR SIRAG MOHAMMED (Sudanese)**

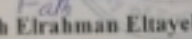
The degree of Bachelor (Honours) in Engineering (FULL TIME)

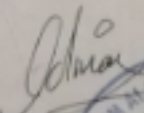
In: Electrical Engineering (Electrical Power)

Class: First Class

On: 19/12/2016

  
Khalid Mohammed Abu Elgasim  
Registrar

  
Dr. Fath Elrahman Eltayeb Nur Eldayem Mahmoud  
Faculty Dean

  
Dr. Tag Eldin Ali Abdel Rahman Ahmed  
Academic Secretary

E - mail: academic\_af @aau.edu.sd

Date of Issue: 2017-03-07



11.096614

جمهورية السودان  
Republic of Sudan

جامعة الزعيم الأزهري  
Al-Zaiem Al-Azhari University



0081470

FACULTY OF ENGINEERING  
TRANSCRIPT

This is to certify that the University Senate has awarded : **MOHAMMED ABDELGADIR SIRAG MOHAMMED** (Sudanese) The Degree of Bachelor (Honours) in **Engineering (FULL TIME) Electrical Engineering (Electrical Power)** with grade (First Class) on 19/12/2016 After completion of prescribed courses and having passed the final examinations.

First Semester: 2011/2012

Course Code	Course Title	Credit Hours	Grade
URA 101	Arabic Language (1)	2	A
URI 101	Islamic Culture (1)	2	A
URE 101	English Language (1)	2	A
CO101	Introduction to Computer	2	B+
MA101	Calculus (1)	4	B
MA102	Basic Mathematics	3	C+
PH101	Physics (1)	4	A
CH101	Chemistry (1)	4	A
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GPA: 3.89

Third Semester: 2012/2013

Course Code	Course Title	Credit Hours	Grade
URA 201	Arabic Language (2)	2	A
URI 201	Islamic Culture (2)	2	A
URE 201	English Language (2)	2	B+
ME201	Engineering Drawing (1)	3	B
MA203	Analytical Geometry	2	B
MA201	Differential Equations	4	A
EE221	Solid State Electronics	2	B
ME201	Engineering Materials	3	C+
EE211	Electric Circuits (1)	3	B

GPA: 3.33

CGPA: 3.49

Fifth semester: 2013/2014

Course Code	Course Title	Credit Hours	Grade
MA301	Complex Variables	4	B
EE311	Electric Circuits (2)	3	A
EE321	Electromagnetic (1)	3	A
EE321	Analogue Electronics (1)	3	B+
EE321	Analogue Electronics (1)	3	A
EE321	Electrical Power Systems(1)	3	A
EE381	Electrical Measurements	3	A
ME301	Thermodynamic & Heat Transfer	3	A

GPA: 3.78

CGPA: 3.64

Seventh semester: 2014/2015

Course Code	Course Title	Credit Hours	Grade
EE421	Fields & Electromagnetic Waves	3	A
EE431	Digital Circuits Design (2)	3	C
EE433	Microprocessor	3	A
EE441	Communication (1)	3	B
EE481	Control (1)	3	A
EE481	Control (1)	3	B
EE481	Electromechanical Energy Conversion(2)	3	B

GPA: 3.33

CGPA: 3.84

Ninth semester: 2015/2016

Course Code	Course Title	Credit Hours	Grade
EE501	Engineering Economic	3	B
EE541	Control Systems	3	A
CE501	Environment & Safety Engineering	2	A
EE56a	Electrical Power Systems	3	A
EE56b	Generalize Theory of Electrical	3	A
EE590	Project (1)	3	B

GPA: 3.74

CGPA: 3.84

Second semester: 2011/2012

Course Code	Course Title	Credit Hours	Grade
URA 102	Arabic Language (2)	2	A
URI 102	Islamic Culture (2)	2	A
URE 102	English Language (2)	2	C
URS 102	Sudanese studies	2	A
CO102	Computer Programming	2	C
CO102	Computer Programming	4	A
MA102	Calculus (2)	4	A
MA104	Linear Algebra	2	A
PH102	Physics (2)	4	B+
ME112	Engineering Mechanics	4	B
CH102	Chemistry (2)	4	A

GPA: 3.84

CGPA: 3.84

Fourth Semester: 2012/2013

Course Code	Course Title	Credit Hours	Grade
URA 202	Arabic Language (4)	2	B
URI 202	Islamic Culture (4)	2	A
URE 202	English Language (4)	2	B+
MA202	Numerical Analysis	2	B
EE212	Electric Circuits (2)	2	A
EE232	Electronic Devices	2	A
EE234	Digital Systems	2	A
ME 206	Introduction to Mech Engineering	3	B
ME202	Engineering Drawing (2)	3	A

GPA: 3.89

CGPA: 3.81

Sixth Semester: 2013/2014

Course Code	Course Title	Credit Hours	Grade
MA302	Statistics	3	A
EE312	Circuits analysis & design using computer	2	A
EE322	Electromagnetic (2)	3	A
EE332	Analogue Electronics (2)	3	A
EE334	Digital Circuits Design (1)	3	B+
EE382	Electromechanical Energy Conversion(1)	3	B
EE342	Signals & Linear Systems	3	B+

GPA: 3.70

CGPA: 3.88

Eighth Semester: 2014/2015

Course Code	Course Title	Credit Hours	Grade
EE412	Microprocessor Applications	3	A
EE452	Control (2)	3	C+
EE454	Computer Architecture & Interfacing	3	A
EE442	Communication (2)	3	B
EE472	Electrical Power Systems(2)	3	A
EE482	Electronic Measurements	2	C+
EE482	Electronic Measurements	3	B
EE482	Power Electronics	3	B

GPA: 3.33

CGPA: 3.82

Tenth Semester: 2015/2016

Course Code	Course Title	Credit Hours	Grade
EE591	Project(2)	3	B+
EE582	Computer Organizing	3	A
ME502	Industrial Management	3	A
EE564	Electrical Protection Systems	3	A
EE590	Electrical Machines Dynamic	3	B
EE591	0000000000	00	00

GPA: 3.34

CGPA: 3.84

Kh  
Khalid Mohammed Abu Elgasim  
Registrar

Dr. Tag Elbin Ali Abdel Rahman Ahmed  
Academic Secretary

Dr. Fath Elrahman Eltayeb Nur Elmayem Mahmoud  
Faculty Dean

Date of issue: 07/03/2017

E-Mail : academic\_01@au.edu.sd





بسم الله الرحمن الرحيم

The Republic of The Sudan  
University of Khartoum  
Faculty of Engineering



KR 0021739

Date: 10/05/2022

To whom it may concern

This is to certify that Engineer MOHANNED ABDELGADIR SIRAG MOHAMMED had successfully passed all the courses of the Master's degree of Science in Electrical Power Engineering, faculty of Engineering, University of Khartoum, and he had been taught all the courses in English Language.

He will be awarded Master's degree of Science in Electrical Power Engineering after the approval of the university senate.

This certificate has been issued upon his request.



Dr. Ammar Hassan Elsheikh Mohamed  
Deputy Dean for Academic Affairs

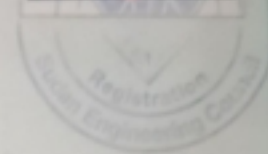
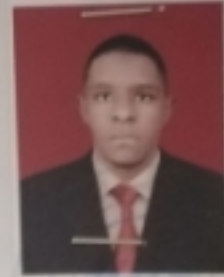




0035964

Republic of Sudan  
SUDAN ENGINEERING COUNCIL

REGISTRATION CERTIFICATE



This is to certify that:

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

Has been enrolled on the 08 of October 2017 at the  
Sudan Engineering Council in the Engineer roll as a:

**" Graduate Engineer "**

(DISCIPLINE: ELECTRICAL ENGINEERING(ELECTRICAL POWER))

And designated the enrollment number (EC/ER/GE/ 51165)  
in accordance with article 21(2) of the Engineering Council  
Act (1998). Hence he is entitled to the title of Graduate  
Engineer and to put the designation (GE) before his name.

Date of issue: 24/05/2022.



Secretary General  
Con. Eng. /NADIA MAHMOUD ABDEL RAHMAN

Any alteration renders this certificate void

بسم الله الرحمن الرحيم



Ministry of Energy & Mining

Sudanese Electricity Distribution Company Ltd

General Administration of Khartoum Electricity Distribution

Administration of Omdurman Distribution

Automation & Control Center

Date: 13/06/2021

To Whom it my Concern

Sudanese Electricity Distribution Company Ltd certify that: Mr: MOHANNED ABDELGADIR SIRAG MOHAMMED works within manpower as an Electrical Engineer (control & operation engineer) from 1-2-2018 until now.

This certificate liberalized according to his request.


بسم الله الرحمن الرحيم



Ministry of Energy & Mining

Sudanese Electricity Distribution Company Ltd

General Administration of Khartoum Electricity Distribution

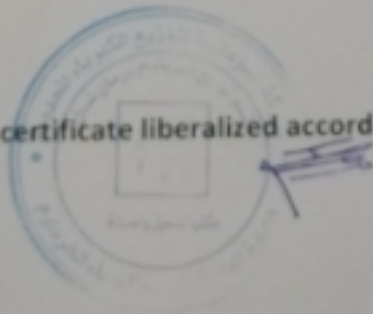
Administration of Omdurman Distribution

Date: 13/06/2021

To Whom it my Concern

Sudanese Electricity Distribution Company Ltd certify that: Mr: MOHANNED ABDELGADIR SIRAG MOHAMMED works within manpower as an Electrical Engineer (Overhead lines Maintenance engineer) from 1-2-2018 until now.

This certificate liberalized according to his request.



Reg. No. : 77602

N.C.T. License No. : 1226

Crtf. No. : 1700057

The undersigned do hereby confirm this

***Certificate of Completion***

to Mr./s :

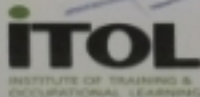
**Mohanned Abdelgadir Sirag Mohammed**

for successful completion of the training program in :

**Electrical Power System  
Concepts & Technology**

Program Duration : From 21 to 28 Jan. 2017

Contact Hours : 24 Hours

*General Manager**Eng. Sami AbdelRaouf Osman**Certified Corporate Member of**Instructor**Eng. Elmamoun Ibrahim Mustafa*

Location: Khartoum 2 - South Of Elqurashi Park

Tel: 00249183484150 ,0249901742007,0111224488 — E-mail : exemplarcenter@gmail.com





جمهورية السودان



مركز إكسبلمر للتدريب الهندسي والتطوير الوظيفي

Exemplar Center for Engineering Training and Career Development

Reg. No. : 77602

N.C.T. License No. : 1226

Crtf. No. : 1700402

The undersigned do hereby confirm this

## *Certificate of Completion*

to Mr./s :

**Mohanned Abdelgadir Sirag Mohammed**

for successful completion of the training program in :

**Electrical Installations Design for Buildings  
and Facilities**

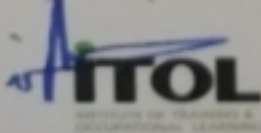
Program Duration : From 8 to 16 April 2017

Contact Hours : 24 Hours

General Manager

✓ Eng. Sami AbdelRaouf Osman

Certified Corporate Member of



Instructor

Elmamdouh Ibrahim Mustafa

Location: Khartoum 2 - South Of Elqurashi Park

Tel: 00249183484150 ,0249901742007,0111224488 --- E-mail : exemplarcenter@gmail.com

بسم الله الرحمن الرحيم

الشركة السودانية لتوزيع الكهرباء المحدودة  
الإدارة العامة للموارد البشرية والمالية والإدارية والإمداد  
إدارة الموارد البشرية - قسم التدريب



## شهادة تدريب

يشهد قسم التدريب بالشركة السودانية لتوزيع الكهرباء المحدودة

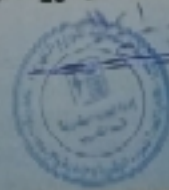
بأن السيد/ مهندس عبدالقادر سراج محمد  
قد أكمل دورة تدريبية في

GIS

وذلك في الفترة من 20 أكتوبر - 2018 حتى 1 نوفمبر - 2018

م : ماجدة عبد الجور  
مديرة إدارة الموارد البشرية

1/11/2018



د. الطيب عوض الكريم إبراهيم  
مدير قسم التدريب



جمهورية السودان



مركز إكسبلمر للتدريب الهندسي والتطوير الوظيفي

Exemplar Center for Engineering Training and Career Development

Reg. No. : 77602

N.C.T. License No. : 1226

Crtf. No. : 1900749

The undersigned do hereby confirm this

## *Certificate of Completion*

to Mr./s:

**Mohanned Abdelgadir Sirag Mohammed**

for successful completion of the training program in :

## **Low Voltage Switchgears**

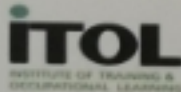
Program Duration : From 6<sup>th</sup> to 15<sup>th</sup> July, 2019

Contact Hours : 24 Hours

General Manager

Eng. Sami AbdelRaouf Osman

Certified Corporate Member of



Instructor

Eng. Elmamoun Ibrahim Mustafa

Location: Khartoum 2 - South Of Elqurashi Park

Tel: 00249183484150 ,0249901742007,0111224488 — E-mail : exemplarcenter@gmail.com





الجمهورية العربية السورية  
 وزارة التخطيط والتنمية الاقتصادية  
 ومركز دراسات البعثات الاقتصادية الأجنبية



مركز التدريب والتنمية المتكاملة ( ايم دي سي )  
 Training & Integrated Development Center ( TIDC )

**Certificate**



**شهادة**

This is to Certify that :  
 MOHAMMED ABDEL GADIR SIRAG MOHAMMED  
 Has Successfully Completed a Training Course In  
 DISTRIBUTION NETWORK OPERATION

بهذا تشهد بأن :  
 المهندس عبدالغادر سراج محمد  
 قد أكمل بنجاح الدورة التدريبية في :  
 تشغيل شبكة التوزيع

Held from 20/09/2019 to 17/10/2019

من 20/09/2019 إلى 17/10/2019

*(Signature)*  
 Section Manager

*(Signature)*  
 T. Center Manager



*(Signature)*  
 مدير المركز

*(Signature)*  
 مدير القسم

إدارة الموارد البشرية



الشركة السودانية لتوزيع الكهرباء المحدودة  
Sudanese Electricity Distribution Company Ltd



الإدارة العامة للموارد البشرية والمالية والإدارية والإمداد  
إدارة الموارد البشرية قسم التدريب

## شهادة تدريب

يشهد قسم التدريب بالشركة السودانية لتوزيع الكهرباء المحدودة

مهندس عبدالغفار مراح محمد

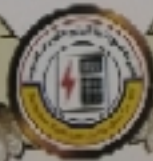
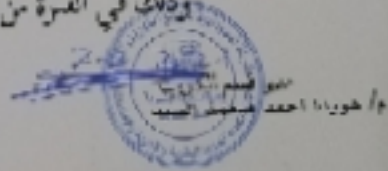
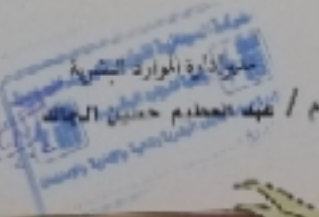
بأن السيد/ة

NEPLAN

قد أكمل دورة تدريبية في

8 أبريل 2021

وذلك في الفترة من 4 أبريل 2021 حتى



EXEMPLAR

جمهورية السودان

EXEMPLAR

مركز إكسبلمار للتدريب الهندسي والتطوير الوظيفي

Exemplar Center for Engineering Training and Career Development

Reg. No. : 77602

N.C.T. License No. : 1226

Crtf. No. : 2021644

The undersigned do hereby confirm this

## *Certificate of Completion*

to Mr./s :

**Mohanned Abdelgadir Sirag Mohammed**

for successful completion of the training program in :

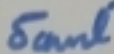
**Integrated Fire Alarm & Fire  
Fighting Systems**

Program Duration : From 29 May<sup>th</sup> to 8<sup>th</sup> Jun 2021

Contact Hours : 27 Hours

General Manager

Eng. Sami Abdelrouf Osman

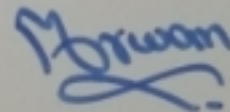


Certified Corporate Member of

**ITOL**  
INSTITUTE OF TRAINING &  
OCCUPATIONAL LEARNING

Instructor

Eng. Marwan Ahmed Abdalatte



Location: Khartoum 2 - South Of Elqurashi Park

Tel: 00249183484150 ,0249901742007,0111224488 — E-mail : exemplarcenter@gmail.com

Reg. No. : 77602

N.C.T. License No. : 1226

Crtf. No. : 2022046

The undersigned do hereby confirm this  
**Certificate of Completion**

to Mr./s :

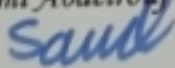
**MOHANNED ABDELGADIR SIRAG MOHAMMED**

for successful completion of the training program in :

**ETAP****Electrical Networks Analysis Using ETAP Software****Program Duration : From 18 August to 29 August 2021****Contact Hours : 30 Hours**

Technical Manager

Eng. Sami Abdelrouff Osman

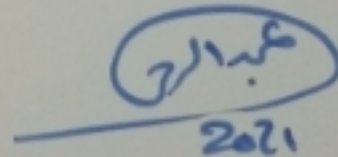


Certified Corporate Member of

**ITOL**  
INSTITUTE OF TRAINING &  
OCCUPATIONAL LEARNING

Instructor

Eng. Abdel-Rahman Saifeldin Alawa

  
2021





SUDANESE ELECTRICITY DISTRIBUTION COMPANY  
AUTOMATION RESEARCH CENTER



## CERTIFICATE

THIS CERTIFY THAT ENG. : MOHANNED ABDELGADIR SIRAG MOHAMMED  
HAS SUCCESSFULLY COMPLETED TRAINING COURSE

### **PRINCIPALS OF SCADA SYSTEM**

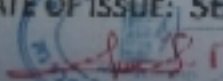
IN THE FOLLOWING TOPICS:


- 1- SCADA SYSTEMS HARDWARE & FIRMWARE.
- 2- REMOTE TERMINAL UNIT (RTU).
- 3- MASTER STATION
- 4- SCADA COMMUNICATION NETWORK.


HELD FROM 12/9/2021

TO 16/9/2021

DATE OF ISSUE: SEPTEMBER 2021

  
ENG: AMIN USMAN YOUSIF  
SEDC GENERAL MANAGER

  
ENG: SAMI OMER  
DACC DIRECTOR

  
ENG: MOHAMED MAHMOUD  
ABC MANAGER



# OSH Academy™

Occupational Safety & Health Training

*This is to verify that*

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

*Has successfully completed all assignments and final exam requirements for the following  
OSH Academy Occupational Safety & Health Course:*

## Personal Protective Equipment

Topics covered in this training include: OSHA General Requirements for Personal Protective Equipment (PPE); PPE Categories; Employee-Owned Equipment; PPE Training Requirements; Eye and Face Protection; Respiratory Protection; Head, Ear, and Foot Protection; Electrical Protective Equipment; Hearing Protection; and Training Hands-On PPE Techniques.

Steven J. Leigh, MA, LSA, CEM&H  
Director, Operations  
OSH Academy Safety and Health Training

This training complies with OSHA standards and addresses OSHA 29 CFR 1910.132 and 1910.133 standards for Safety, Health, and Environmental (SHE) Training. OSH Academy training is widely recognized by governmental agencies, colleges, technical schools, and businesses. OSH Academy training also qualifies for Certificates of Completion (COC) upon successful professional certification.



Course #	Issue Date	Hours
181122	07.04.2021	5

Official original certificates must include the OSH Academy logo and be received by OSH Academy. All certificates include a unique QR code that can be verified through the OSH Academy website: [www.oshacademy.com](http://www.oshacademy.com)

OSH Academy has Division of  
Occupational Safety and Health  
11718 HWY 170/170th Street, No. 278  
Broomfield, CO, USA, 80006  
(303) 313-8370  
[www.oshacademy.com](http://www.oshacademy.com)





# OSH Academy™

Occupational Safety & Health Training

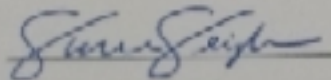
*This is to certify that*

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

*Has successfully completed all assignments and final exam requirements for the following  
OSH Academy Occupational Safety & Health Course.*

## Introduction to Safety Management

Topics covered in this training include safety management system components, Commitment, Accountability, Employee Involvement, Effective Communications, Hazard Identification and Control Strategies, Accident Investigation Teams, Safety Education and Training, and Principles of Total Quality Safety Management.

Steven J. Sirag, MA, COT, CHSM-E  
Director, Instructor  
OSH Academy Safety and Health Training

This training complies with OSHA standards and conforms with ANSI Z490.1 and ISO 45001 guidelines for Safety, Health, and Environmental (SHE) Training. OSH Academy training is widely recognized by government agencies, colleges, technical schools, and businesses. OSH Academy training also qualifies for Continuous of Certification (COC) points toward professional recertification.



Course #	Issue Date	Hours
247112	01/08/2021	6

Printed original certificates may include the OSH Academy logo and a QR code. All certificates include a unique QR Code and can be verified through the OSH Academy website: [www.oshacademy.org/verify](http://www.oshacademy.org/verify)

OSH Academy is a division of  
People Safety Group, Inc.  
11715 NW Casselton Court, Ste 214  
Denver, CO 80233-5736  
303.217.8700  
[www.oshacademy.org](http://www.oshacademy.org)







# OSH Academy™

Occupational Safety & Health Training

This is to certify that

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

*Has successfully completed all assignments and final exam requirements for the following  
OSH Academy Occupational Safety & Health Course.*

## Energy Control Program (Lockout/Tagout)

Topics covered in this training include: purpose, scope, Application of 29 CFR 1910.147, Energy Control Program Components, Lockout/Tagout Training and Communication, Periodic Inspections, Mallocks and Hardware, Critical Steps, Protocols for Shutdown, Start-up, Release from LOTO, Alternative Steps, Testing, Contractor Responsibilities, Group LOTO, and MUI Change Procedure.

Steve J. Grigg, MA, LEO, LSHM-E  
Director, 3887607  
OSH Academy Safety and Health Training

This training complies with ANSI standards and conforms with ANSI Z490.1 and ANSI Z550.1 guidelines for Safety, Health, and Environmental (SHE) Training. OSH Academy training is widely recognized by government agencies, colleges, technical schools, and businesses. OSH Academy training also qualifies for Credit Hours of Accreditation (COCA) points toward professional certification.



Course ID	Issue Date	Hours
147752	06/26/2021	6

Please request certification from OSH Academy for all OSH Academy training or recertification. All certificates include a unique QR Code and may be verified through the OSH Academy website.

OSH Academy is a division of  
INTEGRITY Group, Inc.  
15200 West University Parkway, Ste. 200  
Boca Raton, FL, USA, 33433  
(561) 977-8777  
www.oshacademy.org





This is to certify that

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

Has successfully completed all assignments and final exam requirements for the following  
OSHAcademy Occupational Safety & Health Course:

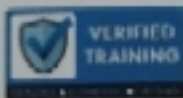
### Electrical Safety for Technicians & Supervisors

Topics covered in this training include: Nature of Electricity, Electrical Hazards Evolution, Electrical Safety Model, Controlling Electrical Hazards, Assured Equipment Grounding Conductor Program, Hand and Power Tool Safety, Electrical Lockout/Tagout, Live-Work Safe Practices, and Ground Fault Circuit Interrupter (GFCI) Protection.



Starag Sirag, MA, CTT, CSO&P  
Director, Instructor  
OSHAcademy Safety and Health Training

This training complies with OSHA standards and conforms with ANSI Z490.1 and ISO 45001 guidelines for Safety, Health, and Environment (SHE) 11818888. OSHAcademy training is widely recognized by governmental agencies, colleges, technical schools, and businesses. OSHAcademy training also qualifies for Continuous of Certification (COC) points toward professional certification.



Course ID	Issue Date	Hours
747732	06/30/2021	7

Printed original certificate must include the OSHAcademy logo and confirmed OSHAcademy seal. All certificates include a unique QR Code and can be verified through the OSHAcademy website: [www.oshacademy.org/verify](http://www.oshacademy.org/verify)

OSHAcademy is a division of  
Gough Safety Group, Inc.  
15218 NW Grandview Place, Ste 200  
Beaverton, OR, USA, 97006  
+1.503.217.8700  
[www.oshacademy.org](http://www.oshacademy.org)





# OSH Academy™

Occupational Safety & Health Training

This is to certify that

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

Has successfully completed all assignments and final exam requirements for the following  
OSH Academy Occupational Safety & Health Course.

## Introduction to Ergonomics

Topics covered in this training include: Ergonomics Definition, Risk Factor Areas (Person, Task, and Environment), Impact of Ergonomics Injuries, Controlling Risk Factors (Substitution, Elimination, Engineering Controls, Administrative Controls, Personal Protective Equipment), and Making System Improvements.



Steven J. Smith, MA, CET, CFM-1  
Director, Institute  
OSH Academy Safety and Health Training

This training complies with OSHA standards and references 29 CFR 1910.1200 and 1910.1201 guidelines for Safety, Health, and Environmental (SHE) training. OSH Academy training is widely recognized by government agencies, colleges, technical schools, and businesses. OSH Academy training also qualifies for Continuing Education (CEU) points toward professional certification.



747782 06.21.2021 4  
Student ID Issue Date Hours

Printed original certificates must include the OSH Academy logo and all text as indicated through the OSH Academy system. [www.oshacademy.com](http://www.oshacademy.com)

OSH Academy is a division of  
Garda Safety Group, Inc.  
15725 NW 36th Ave., Suite 200  
Beverly Hills, CA, USA, 91606  
+1 310 757 8721  
[www.oshacademy.com](http://www.oshacademy.com)





# OSH Academy™

Occupational Safety & Health Training

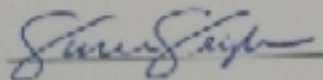
*This is to certify that*

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

*Has successfully completed all assignments and final exam requirements for the following  
OSH Academy Occupational Safety & Health Course.*

## Fall Protection Program

Topics covered in this training include: Hazards of Working at Elevation, Fall Prevention Program Elements, Identifying & Evaluating Fall Hazards, Portable Ladders, Supported Scaffolds, Aerial Lifts, Adjustable-Extension Scaffolds, Crows & Derris, Suspended Personnel Platforms, Personal Fall Arrest Systems (PFAS), Guardrail Systems, Safety Net Systems, Trench & Excavation Safety, and Rescue at Height.



Steven J. Sirag, MA, CCF, PSHM  
Director, Instructor  
OSH Academy Safety and Health Training

This training complies with OSHA standards and conforms with ANSI Z490.1 and ISO 45001 guidelines for Safety, Health, and Environmental (SHE) Training. OSH Academy training is widely recognized by government agencies, colleges, technical schools, and institutions. OSH Academy training also qualifies for Certificates of Completion (COC) points toward professional recertification.



Student ID	Issue Date	Expires
Student 9	07/07/2023	7/7/2024

Printed digital certificates may be used as OSH Academy evidence of education. OSH Academy does not certify any individual or organization and can be verified through OSH Academy website: [www.oshacademy.com](https://www.oshacademy.com)

OSH Academy is a Division of  
High Tech Skills Center, Inc.  
1101 NW Commercial Drive, Suite 100  
Beverly Hills, CA 90704, U.S.A.  
+1 310 414 0001  
[info@oshacademy.com](mailto:info@oshacademy.com)





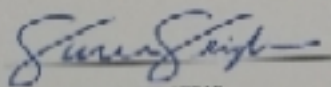
This is to certify that

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

Has successfully completed all assignments and final exam requirements for the following  
OSHAcademy Occupational Safety & Health Course:

## Emergency Action Plans

Topics covered in this training include: Emergency Action Plan (EAP) Components, EAP Development, EAP Policies and Procedures, Mutual and Non-Mutual Emergencies, Evaluation Routes, Assembly Areas, Duties and Responsibilities (Management, Plant Administrators, Executives, Wardens, Employees), EAP Training and Drills, Exit Plan Review.



Steven J. Smith, MA, OET, CHVMI  
Director, Instructor  
OSHAcademy Safety and Health Training

This training complies with OSHA standards and criteria: 29 CFR 1910.1 and 1910.45001 guidelines for Safety, Health, and Environmental (SHE) Training. OSHAcademy training is widely recognized by government agencies, colleges, technical schools, and businesses. OSHAcademy training also qualifies for Certificates of Completion (COC) points toward government certification.



747732	06/21/2021	4
Student ID	Issue Date	Points

Final assignment scores were included for OSHAcademy training and will be included in your OSHA record. All course materials are available through the OSHAcademy website: [www.oshacademy.com](http://www.oshacademy.com)

OSHAcademy is a division of  
Global Safety Group, Inc.  
11224 11th Avenue, Suite 100  
Broomfield, CO, USA, 80020  
+1 303 432-7500  
[www.oshacademy.com](http://www.oshacademy.com)







# OSHA Academy™

Occupational Safety & Health Training

## Certificate of Professional Program Completion

This is to certify that

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

*Has demonstrated academic excellence with distinction by completing all course, academic requirements and a minimum of 44 hours of study on required subjects in the OSHA Academy Professional Development Certificate Program. This achievement demonstrates commitment and professionalism in Occupational Safety and Health.*

## Occupational Safety and Health Specialist

Steve J. Wright, MA, LEE, CHSST-1  
Director, Institute  
OSHA Academy Safety and Health Training

This training complies with OSHA standards and courses with ANSI Z490.1 and ISO 45001 practices for Safety, Health, and Environmental (SHE) Training. OSHA Academy training is widely recognized by government agencies, colleges, technical schools, and businesses. OSHA Academy training also qualifies for Continuation of Certification (COC) points toward professional recertification.



147732	07.08.2023	44
Student ID	Issue Date	Hours

This original certificate must include the OSHA Academy logo and may be validated through the OSHA Academy website: [www.oshaacademy.org](http://www.oshaacademy.org)

OSHA Academy is a division of  
Arling Safety Group, Inc.  
1711 NW Longview Place, Suite 200  
Gresham, OR, USA, 97030  
1.503.347.9700  
[www.arlingsafety.com](http://www.arlingsafety.com)





جمهورية السودان



مركز إكسEMPLARY للتدريب الهندسي والتطوير الوظيفي

Exemplar Center for Engineering Training and Career Development

Reg. No. : 77602

N.C.T. License No. : 1226

Crtf. No. : 2022500

The undersigned do hereby confirm this

## Certificate of Completion

to Mr./s :

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

for successful completion of the training program in :

**AutoCAD for Electrical Design  
& Workshop Drawings**

Program Duration : From 15<sup>th</sup> December . to 27<sup>th</sup> December . 2021

Contact Hours : 24 Hours

General Manager

*Sami Abdelrouf Osman*

Certified Corporate Member of



Instructor

*Eng. Ahmed Ibrahim Mustafa*

*Aimu*

Location: Khartoum 2 - South Of Elqurashi Park

Tel: 00249183484150 ,0249901742007,0111224488 — E-mail : exemplarcenter@gmail.com



EXEMPLAR

جمهورية السودان

EXEMPLAR

مركز إكسimplar للتدريب الهندسي والتطوير الوظيفي

Exemplar Center for Engineering Training and Career Development

Reg. No. : 77602

N.C.T. License No. : 1226

Crtf. No. : 2023180

The undersigned do hereby confirm this

## *Certificate of Completion*

to Mr./s :

**Mohanned Abdelgadir Sirag Mohammed**

for successful completion of the training program in :

**Fault Analysis Of Current Distribution in Power  
Transformers And Generators**

Program Duration : From 14<sup>th</sup> to 23<sup>th</sup> May . 2022

Contact Hours : 24 Hours

General Manager

Eng. Sami Abdelraouf Osman

Certified Corporate Member of

**ITOL**  
INSTITUTE OF TRAINING &  
OCCUPATIONAL LEARNING

Instructor

Eng. Elsayed Elamen Elsidig

إ. أ. أ. أ.

Location: Khartoum 2 - South Of Elqurashi Park

Tel: 00249183484150 ,0249901742007,0111224488 — E-mail : exemplarcenter@gmail.com



جمهورية السودان



مركز إكسimplar للتدريب الهندسي والتطوير الوظيفي

Exemplar Center for Engineering Training and Career Development

Reg. No. : 77602

N.C.T. License No. : 1226

Crtf. No. : 2023289

The undersigned do hereby confirm this

## *Certificate of Completion*

to Mr./s :

**MOHANNED ABDELGADIR SIRAG MOHAMMED**

for successful completion of the training program in :

## **Medium Voltage Switchgear & Control and Protection**

**Program Duration : From 29<sup>th</sup> May . to 2<sup>nd</sup> June . 2022**

**Contact Hours : 20 Hours**

*General Manager*

*Eng. Sami Abdelrouf Osman*

*Certified Corporate Member of*



*Instructor*

*Eng. Elsayed Elamen Elsidig*

Location: Khartoum 2 - South Of Elqurashi Park

Tel: 00249183484150 ,0249901742007,0111224488 — E-mail : exemplarcenter@gmail.com

Reg. No. : 77602

N.C.T. License No. : 1226

Crtf. No. : 2023442

The undersigned do hereby confirm this

**Certificate of Completion**

to Mr./s :

**Mohanned Abdelgadir Sirag Mohammed**

for successful completion of the training program in :

**Electrical Power Equipment  
Testing & Commissioning**

Program Duration : From 23 July to 2 Aug . 2022

Contact Hours : 30 Hours

General Manager

Eng. Sami Abdelrouf Osman

Certified Corporate Member of

**ITOL**  
INSTITUTE OF TRAINING &  
OCCUPATIONAL LEARNING

Instructor

Eng. Elsayed Elamen Elsidig

الإمام العبد

Location: Khartoum 2 - South Of Elqurashi Park

Tel: 00249183484150 ,0249901742007,0111224488 — E-mail : exemplarcenter@gmail.com



وزارة الموارد المائية والكهرباء  
الشركة السودانية لتوزيع الكهرباء المحدودة  
الادارة العامة للموارد البشرية والمالية والادارية والامداد  
ادارة الموارد البشرية  
قسم التدريب



التاريخ: 2017/4/17 م

### شهادة لمن يهمهم الأمر

يشهد قسم التدريب بالشركة السودانية لتوزيع الكهرباء المحدودة بأن الخريج:

..... **مهند عبد القادر سراج محمد** .....

قد أكمل فترة بالشركة السودانية لتوزيع الكهرباء المحدودة الإدارة العامة للموارد البشرية والمالية والادارية والامداد والورشة المركزية لصيانة المحولات . وذلك في الفتره من 2017/4/2م الى 2017/4/13م . وقد كان طيلة هذه الفترة مواظباً ، والتمسنا منه الرغبة الأكيدة في الإستفادة من الوقت والمشاركة في العمل ، وكان ممتازاً في أدائه ومتعاوناً .

\* وهذا منا للاعتماد \*

د : الطيب عوض الكريم إبراهيم  
مدير قسم التدريب







جمهورية السودان  
وزارة الموارد المائية والري والكهرباء

Ministry Of Water Resources and Electricit

الشركة السودانية لتوليد الماني والطاقت المتجددة المحدودة

الادارة العامة لسدي الروصيرص وسنار

محطة توليد كهرباء الروصيرص

قسم الشئون المالية والادارية والامدادات



التاريخ : 2018/09/21م

التمرة : 61 / ج / 14 / 2018

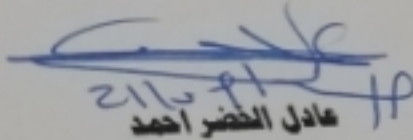
بعد السلام على الله وبرحمته

الموضوع: شهادة لمن يهمهم الامر

بهذا تشهد الشركة السودانية لتوليد الماني والطاقت المتجددة المحدوده - محطة توليد كهرباء الروصيرص بان السيد | مهندس عبدالقادر سراج محمد ... قد ادي الخدمة الوطنية بمحطة توليد كهرباء الروصيرص خلال الفترة من 2017/05/21م وحتى 2018/05/21م وقد عمل خلال الفترة باقسام المحطة المختلفة (قسم التشغيل - الصيانة الكهربائية - عمليات راس الخزان - وحدة السلامة).

وكان خلال الفترة حسن السير والسلوك ومتعاون مع زملاءه \*\*\*\*\*

وهذه شهاده من له لمن يهمهم الامر \*\*\*\*\*



عادل الفضر احمد  
مدير قسم الشئون المالية  
والادارية والامدادات

