

Ac Gabinete de Qualificação
Para os procedimentos regulamentares



OPERAÇÕES DE ENGENHEIROS
17/5/2012
N.º de processo 803

REQUERIMENTO PARA OUTORGA DE NÍVEIS DE QUALIFICAÇÃO PROFISSIONAL

Áncado TEL
feminino

Exmo. Senhor
Bastonário da Ordem dos Engenheiros

Nome (completo) MANUEL DA SILVA
 Residência R. PEDRO COUTINHO, 27 - EDIFÍCIO QUEEN'S COURT, 22B-R.4E MACAU
 Tel. 28529772 Fax - Telemóvel 66877469 E-mail engenh@silva.com
 N.º de membro 35240 Especialidade ENGENHARIA ELECTROTÉCNICA Região CENTRO
 Domicílio profissional (nome e endereço) GABINETE PARA AS INFRA-ESTRUTURAS DE TRANSPORTES - GOVERNO DA REGIÃO ADMINIST. ESPECIAL DE MACAU
 Tel. (853) 28813721 Fax (853) 28813260 E-mail msilva@git.gov.mo (www.git.gov.mo)
 Licenciado em Engenharia ELECTROTÉCNICA (Ramo de Correntes Fortes) no ano de 1986
 com a classificação final de 14 valores pela(o) Universidade/Instituto COIMBRA
 Exerce a profissão desde o ano de 1971

REQUER

A outorga do nível de qualificação profissional de Membro CONSELHEIRO

Junta: Currículo profissional (se possível 4 cópias)
 Informação sobre cursos de formação permanente realizados e outros elementos que considera valorativos do seu mérito profissional (no caso de não constar do currículo profissional).

Indica: (na página seguinte) os nomes de 4 membros da Ordem (pelo menos 3) com nível igual ou superior ao que requer (referências).

11/05/2012 Manuel da Silva
 Assinatura do requerente

(A PREENCHER PELOS SERVIÇOS DA ORDEM)

Cédula profissional n.º 35240 ano de inscrição 1995 Região Centro
 Colégio Electrotécnica Situação associativa Ativo
 Nível de qualificação profissional actual Membro Sénior Rubrica: feminino

REFERÊNCIAS

As referências atestam o mérito profissional do candidato e devem ser membros da Ordem com nível de qualificação profissional igual ou superior ao requerido.

Embora o Regulamento exija, apenas 3 referências, é conveniente indicar mais, pois logo que 3 respondam o processo seguirá imediatamente para apreciação dos Órgãos Nacionais.

1. Nome (completo) AIRES RODRIGUES FRANCISCO
 Domicílio profissional (nome e endereço) _____

 Tel. _____ Fax _____ Telemóvel _____ E-mail _____
 Residência R. CIDADE DE SANTA CLARA DA CALIFÓRNIA, N° 73
- 3° DTO. - 3000 - III COIMBRA
 Tel. _____ Fax _____ Telemóvel _____ E-mail _____

2. Nome (completo) CARLOS ARTUR TRINDADE DE SA' FURTADO
 Domicílio profissional (nome e endereço) _____

 Tel. _____ Fax _____ Telemóvel _____ E-mail _____
 Residência R. GENERAL HUMBERTO DELGADO, N° 47 B,
5° ANDAR - 3030 - 327 COIMBRA
 Tel. _____ Fax _____ Telemóvel _____ E-mail _____

3. Nome (completo) CARLOS FERNANDO RAMOS LEMOS ANTUNES
 Domicílio profissional (nome e endereço) FNACO - 239715925

 Tel. _____ Fax _____ Telemóvel _____ E-mail _____
 Residência VALE SEGURO - PICÓTO DOS BARBADOS
3030 - 281 COIMBRA
 Tel. _____ Fax _____ Telemóvel _____ E-mail _____

4. Nome (completo) CELESTINO FLÓRIDO QUARESMA
 Domicílio profissional (nome e endereço) _____

 Tel. _____ Fax _____ Telemóvel _____ E-mail _____
 Residência R. GENERAL HUMBERTO DELGADO, N° 9
6° ESQUERDO, 3030 - 327 COIMBRA
 Tel. _____ Fax _____ Telemóvel _____ E-mail _____

5. Nome (completo) _____
 Domicílio profissional (nome e endereço) _____

 Tel. _____ Fax _____ Telemóvel _____ E-mail _____
 Residência _____

 Tel. _____ Fax _____ Telemóvel _____ E-mail _____

(A PREENCHER PELOS SERVIÇOS DA ORDEM)

	(1)	(2)	(3)	(4)	(5)
Níveis de Qualificação	<u>Conselheiro</u>	<u>Conselheiro</u>	<u>Conselheiro</u>	<u>Conselheiro</u>	_____
Cédulas Profissionais n.ºs	<u>24642</u>	<u>6798</u>	<u>11919</u>	<u>8716</u>	_____
Colégios	<u>Electrotécnico</u>	<u>Elect.</u>	<u>Elect.</u>	<u>Civil</u>	_____
Regiões	<u>Centro</u>	<u>Centro</u>	<u>Centro</u>	<u>Centro</u>	_____
Situação Associativa	<u>Activo</u>	<u>Activo</u>	<u>Activo</u>	<u>Activo</u>	_____

PARECER DO COLÉGIO

(Art.º 7.º n.º 1 do RAQ)

O Conselho Nacional do Colégio de Engenharia

Electrónica

é de parecer que

que o candidato reúne as condições para
ser proposto para o nível de qualificação 'Membro de
Membros Consultivos.

O PRESIDENTE

11 / 09 / 2013

António Roberto Silva

DECISÃO DO CONSELHO DE ADMISSÃO E QUALIFICAÇÃO

(Art.º 4.º e 7.º do RAQ)

O Conselho de Admissão e Qualificação decide-se _____ * sobre o
mérito profissional do candidato à outorga do nível de qualificação de Membro _____

O PRESIDENTE

_____/_____/_____
* Favoravelmente ou desfavoravelmente

OUTORGA DO NÍVEL

(Art.º 3.º e 5.º do RAQ)

O Conselho Directivo Nacional outorga o nível de Membro _____ ao candidato,
como reconhecimento do mérito profissional.

O BASTONÁRIO

_____/_____/_____

REQUERIMENTO MEMBRO CONSELHEIRO

Nome : Manuel da Silva

Cédula profissional nº - 35240

Requisitos evidenciados:

- Membro efectivo desde 1995
- Referências – 3 Membros Conselheiros
- Habilitações académicas – Licenciado em Engenharia Electrotécnica
- Tempo de exercício da profissão – superior a 5 anos (desde 1971)
- Empresas onde colaborou:
 - EDP Distribuição;
 - Electricidade de Macau;
 - Gabinete para Infra-estruturas (GIT) - Macau
- Actividade profissional
 - O candidato desenvolveu a sua actividade em áreas como:
 - Distribuição de energia;
 - Infra-estruturas de transporte

Face ao “Curriculum Vitae” do candidato e aos pareceres favoráveis dos três membros conselheiros, afigura-se estarem reunidas as condições para que **o candidato seja proposto para o nível de qualificação profissional de Membro Conselheiro.**

2013-09-10



Concordo com o
proposto.


11/09/2013

Europass- Curriculum Vitae

*Manuel
da
Silva*



Senior Member of the Ordem dos Engenheiros
(OE - Order of Engineers) of Portugal -
Professional Card N° 35240
Member of Engineers Association of Macau with number
C10-0660

Personal Information

First name(s) / Surname(s)

MANUEL DA SILVA

**Experiences in different
Countries & contacts to
different cultures**

**Portugal: 1949-1960; Moçambique: 1960-1980; Portugal: 1980-1988;
Macau, from 1988 (more than 23 years) – details in Supplement below**

Address

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Edifício Quenn's Court, 22° andar B
R.A.E. MACAU**

Telephone(s)

Home: 28529772; Mobile Phone:66877469

E-mail

engenheirosenior@gmail.com

Nationality

Portuguese and Macau Residente (ID 5214928 (3))

Date of birth

August 28, 1949

Marital Status

Married

Education and Title of qualification awarded (1)

Dates

1986

**Name and type of
organisation providing
education**

Faculty of Science and Technology of Coimbra University, Portugal

**Principal
subjects/occupational skills
covered**

**Bachelor of Electrical Engineering – Energy Systems in High, Medium &
Low Voltage (1986) – Coimbra University, Portugal**

**Level in national or
international classification**

Obtained Mark:14/20

3

Society Hydro-Electric Revue, SA (SHER), Chimoio, Mozambique

Dates	1975-1977 (2 years)
Occupation or position held	Chimoio district – Unit Head (Laboratory-Cars Workshop-Distribution Network in Chimoio)
Main activities and responsibilities	<ul style="list-style-type: none">○ In charge of 50 workers and responsibly for the works, discipline and safety at works places;○ Design, Construction, Operation (including maintenance) of 230-400 (V) and 6.6 kV electrical networks in Chimoio (city, capital of Manica province of Mozambique);○ Manage the emergency team for restoration power after outages○ Coordination and supervision the Shop Cars of Company, where was proceeded to repair and maintain the vehicle fleet of SHER, composed of dozens of cars, vans and trucks and where electrical LV switchboards were equipped;○ To rehearse and recover (maintenance) the electrical energy meters in Laboratory of Company;○ To repair damaged equipment such as the transmitters-receivers of SHER's telecommunications network and communications equipment, control and transfer of triggers by carrier waves through transmission lines of energy (110kV);○ Supervision and checking the preparation and updating lists of spare parts and materials (electrical and mechanical);
Dates	1978-1980 (2 years)
Occupation or position held	Division of Lines - Head Division of Lines
Main activities and responsibilities	<ul style="list-style-type: none">○ In charge of a variable number from 80 to 100 workers (14 brigades of 6 or even more, each) with the responsibility for the works, discipline and safety at works places;○ Design, Construction and Operation (including maintenance) of 230-400 (V), 6.6 kV (Chimoio is not included), 22 kV, 33 kV, 66 kV and 110 kV electrical networks in Sofala and Manica provinces of Mozambique;○ Cooperation with the administrative departments of SHER to resolve billing problems of energy sales, services charges on new electrical networks and transformer substations;○ Supervise and checking the preparation and updating lists of spare parts and materials (electrical and mechanical) such as metallic and wood poles transformers, switchgears, switches, etc);
Name and address of employer	SHER - Sociedade Hidro-Eléctrica do Revué, S.A. Chimoio, Mozambique
Type of business or sector	Utility

Macau Electricity Company - CEM, SA**Dates** 1988-2008 (20 years)**Macau Electricity Company - CEM, SA, Macau (Senior Engineer/ Unit Head)****Occupation or position held**

- **Unit Head, Customer Services Department**

- Analyzed on projects for supply electricity and energy inputs to individual and collective buildings, including Casinos. Also responsible for examining and resolving situations arising from the construction of buildings in areas served by electricity grids of 66kV, 11KV and 400V/230V including the Public Lighting Network;
- Maintained frequent contacts with local authorities particularly DSSOPT (the main), GDSE, IACM, Fire Department, SAAM, etc in order to overcome adverse situations arising from analyze of electrical projects;
- Analyzed and deduced the power load demands and tariffs for power consumers (customers);
- Programmed to migrate the overhead to underground power network arising from the energy inputs to individual and collective buildings, including Casinos;
- Provide consultancy services to customers, including some of the casino operators, in planning and implementation the necessary measures in order to modify the building facilities or, even consumption habits, to save energy;
- Promote and adopt energy saving programme in CEM facilities to facilitate environmental protection.

Occupation or position held

- **Senior Engineer, Power Distribution Department**

- Plan and budget for the power network expansion for sustainable development of Macau;
- Designed and Supervised the construction of Power Grid, which included high, medium and low voltage networks including transformer rooms and substations; essentially 110/66KV (planning), 66/11KV (planning & design), switching station (planning & design), 11/0.4-0.23KV (planning, design, installation, operation and maintenance) etc, also study and provide comments on the interconnection with the power supply from mainland China;
- Programmed for the reinforcement, refurbishment of the MV power network and administered all capital projects;
- When it was considered necessary, managed the emergency team for restoration power after outages (out or inside buildings);
- Provided technical information and advice to government authority (e.g. DSSOPT) and CEM customers on electricity projects of new buildings or modification in existing building, including casinos;

(2) 2011- Today - The services provided include, but are not limited to:

- Monitor the project management and execution of work on the Macau Light Rail Transit (MLRT) and specifically in the field of Rolling Stock Sub-system of Power Supply networks (110 kVac / 22 kVac; 22 kVac / 400-230 Vac) and Traction network (22 kVac / 750 Vdc) which shall include design, construction and testing of the electric system, as well as managing its interface with the High Voltage Public Distribution Network of Macau, among others;
- Treating the considerations and questions about safety of the MLRT System in accordance with the local safety regulations (where applicable) and international standards in the fields of design, construction and functional testing of electrical installations (AC or DC) of MLRT;
- Provide comments on any contractual dispute and claims for compensation of works relating to the electrical installations (CA or DC) of MLRT;
- Assist the work regarding to the risk assessment for the Facilities and Traction network works pointing out appropriate mitigation measures;
- Issue the corresponding opinions and suggestions, and / or written reports, when the Transportation Infrastructure Office (GIT) requests consultations on specific issues within the electrical systems;
- Where the Transportation Infrastructure Office requests, provide suggestions or technical advice, and / or written reports on any changes regarding to the MLRT project, in electrical installation and network areas, developing technical solutions for the corresponding works in accordance with the standards and / or safety regulations;
- Follow the representatives of GIT in regional or international meetings on rail transport, as Electrical Engineer - Consultant at the request of the Transportation Infrastructure Office and to advise their professionals in the field of electrical systems;
- Follow the representatives of GIT, acting as consultant to carry out all work of inspection, testing and commissioning of the MLRT and specifically in the field of Rolling Stock Sub-system of Power Supply networks (110 kVac / 22 kVac; 22 kVac / 400-230 Vac) and Traction network (22 kVac / 750 Vdc) at the request of GIT and to provide technical advice and suggestions, and / or written report;
- Coordinate contacts between GIT and the railway services of the neighboring regions and their Power Supply Systems (for Facilities and Traction) at under the request of GIT, and attend meetings asked by or designated by GIT.

Name and address of employer

Gabinete para as Infra-estruturas de Transportes (GIT)

Type of business or sector

Industrial - Transports



Annexes

LIST OF SEPARATE ENTRIES FOR EACH RELEVANT COURSE I HAVE COMPLETED

Curso de "Aviónics - Fokker F-27" (LAM - Moçambique)	1972
Curso de Higiene e Segurança no Trabalho (EDP-Coimbra)	1983
Curso de Gestão de Recursos Humanos (CIFAG) (CEM - Macau)	1992
Curso de Engenharia Económica e Gestão da Produtividade (CEM - Macau)	1993
English - Advance 1 (CEM-Macau)	1995
Word for Windows 6.0, Excel, Power Point, Smart Draw (CEM-Macau)	1996
Technical visit to Guangdong Nuclear Power Station Daya Bay (China)	1993
3 RD International Conference on Power Generation Transmission and Distribution (Katmadu, Nepal)	1996
Asian Elenex / Lumiex Exhibition (Hong Kong)	1996
Multi-Media Projector Introcution (CEM-Macau)	1996
Design ,Testing, Operation & Maintenance of High and Low Voltage systems in Buildings (CEM-Macau)	1997
Remote Control System Maininstalk (CEM-Macau)	1997
Electronic Data Interchange and Quick Response (CEM-Macau)	1997
Inter-University Institute of Macau Presentation (CEM-Macau)	1997
Technical Visit to D.S.T.E. (China)	1998
Electrical Power Quality Issues Symposium (CEM-Macau)	1998
Cantonese - CEM (CEM-Macau)	1998
Windows NT Training (CEM-Macau)	1998
New Trends In Inforrnation Systems Seminar(CEM-Macau)	1999
4 th Custorner Services Seminar (CEM-Macau)	1999
Finance for Non-Financial Executives (CEM-Macau)	1999
Inter-University Institute of Macau Presentation (CEM-Macau)	1999
Training on ISO 9000 (CEM-Macau)	1999
Performance Appraisal (University ofMacau)	2000
Utility Direct Asia 2000 (Singapore)	2000
To Maximize Rational Consumption of Electrical Energy -project member	2000
Safety and Reliability - The Hong Kong Polytechnic University	2004
Safety Training - SHE Awareness (CEM-Macau)	2005
Load Assessment Study - project manager (CEM-Macau)	2005
CEM OH&S Seminar and Workshop (CEM-Macau)	2007
Productivity Training by ABS Consulting (CEM-Macau)	2008
Curso de Formação em S.O. para a Construção Civil (D.S.A.L.- Macau)	2009

Representative of CEM for several years as part of the group responsible for adapting the power laws Portugal in Macao (decree-law projects).

Note: We chose to keep some of the names in the Portuguese language, in accordance with the "Training Records" of the employees of

SUPPLEMENT

Experiences in different Countries & contacts to different cultures

(I)

Manuel da Silva was born in Portugal but lived in Mozambique for 20 years (1960 - 1980).

The former Portuguese Overseas Province of Mozambique (an independent country since 1975, with the official name of Republic of Mozambique) is located in south-eastern coast of Africa. Abuts the north by the United Republic of Tanzania to the south with the Republic of South Africa and the Kingdom of Swaziland, and west with the Republic of Malawi, Republic of Zambia and the Republic of Zimbabwe. To the east, borders the Indian Ocean. It has an area of 799 380 km² (about 8.5 times the size of Portugal) and its land border has a length of 4330 km.

1971 (around 1 year)

LAM– Mozambique Airlines (Portuguese: **LAM– Linhas Aéreas de Moçambique**)

<http://www.lam.co.mz/>

Manuel da Silva started his professional carrier in Mozambique Airlines. It operates scheduled services in southern Africa and Europe. It is also the national flag carrier of Mozambique. Also known by its acronym LAM, is an airline based in Maputo, Mozambique. Its main objective is the provision of public passenger transport, cargo and mail at the national, regional and intercontinental, with regular and non-regular. LAM's mission is the transportation by air of passengers, cargo and mail services in domestic, regional and intercontinental levels, whether regular or non-regular.

Its activity in LAM ended by reason of having been called upon to perform obligatory military service.

1972-1974 (2 years)

GEP-Parachutist Special Group (portuguese: **GEP-Grupos Especiais Paraquedistas**) in Militar Region of Mozambique

<http://www.operacional.pt/grupos-especiais-para-quedistas-gep-%E2%80%93-mocambique/>

Mozambique was one of three fighting fronts in the Portuguese Armed Forces have been engaged for a decade on three military branches (by land, sea and air). Manuel da Silva meets with a high sense of mission his compulsory military service having reached the commander of a GEP-Parachutist Special Group under the position of Second Lieutenant, for more than 2 years.

1975-1979 (4 years)

Society Hydro-Electric Revue, SA, (portuguese: **SHER - Sociedade Hidroelétrica do Revué, S.A**), Chimoio, Mozambique, integrated in EDM - Electricidade de Mocambique EP

<http://www.edm.co.mz/>

Beside the compulsory military service, the Society Hydro-Electric Revue, SA was the second company where Manuel da Silva worked. Also known by its acronym SHER, integrated in EDM - Electricidade de Mocambique EP, was a Mozambican company and a concessionaire of public service with private capital mainly Portuguese. SHER has two hydroelectric power plants on the river Revue (Chicamba and Mavuzi, this is a tributary of the Buzi river that flows in Beira City capital of Sofala province). Besides the production of electricity from the two waterfalls in the Revue River, SHER (now known as EDM-Electricity of Mozambique or in portuguese EDM - Electricidade de Mocambique EP) is also responsible for the transmission, distribution to 6.6 kV, 22 kV, 33 kV, 66 kV and 110 kV (and sale energy) in Sofala and Manica provinces in a region located in central Mozambique, and also in the eastern districts of Zimbabwe, with an area larger than Portugal.

(II)

Manuel da Silva returned to and lived in Portugal for 7 years (1980 - 1987)

1980 - 1987 (7 years)

Energias de Portugal (EDP Group), Distribution Centre of Coimbra, Portugal

<http://www.edp.pt/en/Pages/homepage.aspx>

Portuguese technicians from SHER-Mozambique, including Manuel da Silva, were integrated into the EDP-Energias de Portugal (EDP Group) without losing his rights. Thus, despite having only been admitted to the EDP (Portugal) on March 24, 1980 derived from the SHER (Mozambique) for the purpose of their seniority was considered the date of November 11, 1974, the date of their admission to SHER.

Energias de Portugal (EDP, but previously known as Electricity of Portugal) is a company which objective (beside others) is the production, distribution and sale of energy in high, medium and low voltage. But this Company grew-up and actually the EDP Group is composed of several companies, whose activities are focused in the areas of production (EDPR) and distribution (EDP distribution) of electrical and information technologies, but also cover other areas related and complementary, such as water, gas, engineering, laboratory testing, training or management of real estate. Being a leading, portuguese EDP is one of the largest employers at the national level, extending its social responsibility with its employees far beyond their employment status. It is an integrated energy company, a leader in creating value in markets where it makes a difference and which is shared by the universe of EDP employees, spread across different continents and countries - the Iberian Peninsula (Portugal and Spain), France, Belgium, Poland, Romania , United States, Brazil and R. A. E. Macau's of R. P. China - a diversity that enriches and unites different cultures while respecting the market where it operates. EDP's share capital in December 2006 was about 3,700 million Euros, broken down roughly as follows:

- Portuguese State - 25.73%
- BCP Pension Fund - 3.38%
- Spain - 17.89%
- JOSE DE MELLO - Soc de Participações Sociais, SA - 2.00%
- Pictet Asset Management - 2.86%
- SONATRACH - 2.03%
- EDP (treasury shares) - 0.55%
- Remaining shareholders - 45.87%
- Geocapital, fund linked to Macau, Stanley Ho, has an estimated 2%.

The company is ranked by Forbes Global as one of the top 500 global companies, ranking 346 th place.

Corporate Headquarters: Lisbon, Portugal

(III)

Manuel da Silva live in Macau for 23 years (1988 - to Today)

1988-2008 (20 years)

Company of Electricity of Macau – CEM, S.A. (portuguese name: Companhia de Electricidade de Macau - CEM, S.A.)

<http://www.cem-macau.com/?lang=en>

On December 06, 1988 started his regime of temporary transfer to CEM under the Agreement on Temporary Transfer of Technicians, between the EDP - Energias de Portugal and Macau Electricity Company - CEM, SA. Then, CEM was the third company where Manuel da Silva worked. It was due to the cooperation agreement between EDP - Energias de Portugal and Macau Electricity Company, CEM - SA. CEM is a privately owned public service in Macao.

CEM, which holds the capital of EDP, is the company responsible to import at 220 kV and 110 kV voltage level (but also has a generating its own), transmission at 110 kV and 66 kV, 11 kV distribution and sale of electricity in the R. A. E. Macau's of R. P. China under the concession agreement between the Government of Macau and CEM, concluded in 1985 and valid for 25 years (renewed recently). In all of its customers, about 87.8% are residential accounts for about 33% of electricity sales, 8.9% are commercial and represent approximately 40.7% of electricity sales, with about 1.4% are industry and represent approximately 9.9% of energy sales and ultimately the public sector and public lighting are about 1.9%, representing 16.4% of energy sales.

2009 to Today (3 years)

Office for Infrastructure Transport of the Government of R. A. E. Macau (Portuguese: Gabinete para as Infra-estruturas de Transportes – Governo da Região Administrativa Especial de Macau)

<http://www.git.gov.mo/en/index.aspx>

Under the power conferred by Article 50. Basic Law of Macao Special Administrative Region and in accordance with Article 10. Decree-Law No. 85/84/M of August 11, the Chief Executive of R. A. E. Macau has created the Office for Infrastructure Transport, abbreviated to GIT, with the nature of the project team.

GIT aims to promote the modernization and improvement of infrastructure of road transport, as well as the implementation of light rail system, charged with, in particular:

- 1) Develop projects related to large infrastructure of road transport;
- 2) Develop a system of light rail as a means of transportation for the solution of problems of internal mobility of the MSAR, in the medium and long term;
- 3) Provide a comfortable and efficient transportation that can serve both the residents and visitors and contribute to the modernization of the MSAR.

From January 19, 2009 to today Manuel da Silva went on to perform its work by providing technical advisory services as Consultant to the Office for Infrastructure Transport of the Government of R. A. E. Macau

