

The Institution of Civil Engineers.

GREAT GEORGE STREET, WESTMINSTER, S.W.1

CERTIFICATE OF COMPLETION of PRACTICAL ENGINEERING TRAINING under AGREEMENT

I CERTIFY THAT in accordance with an UNDERTAKING dated 31st July 1967.
Mr. JAMES PATRICK McCARTERTY has been in my service
as an engineering⁽¹⁾ ASSISTANT UNDER AGREEMENT for a period of TWO YEARS
years, from 24.7.67 to 23.7.69 of which period TWO YEARS has been spent
in my office, and NO TIME has been spent in or upon engineering works; and that he has
received during the said period practical training in the planning, design and execution of engineering
works as are comprised within the profession of a Civil Engineer. During this period he has
conducted himself with propriety, and has, to the best of my judgment acquired reasonable
practical knowledge of the works with which he has been associated, and which are indicated
overleaf⁽²⁾.

(Signature) E. O. Measor
(E. O. MEASOR)

Engineering qualification F.I.C.E.

Position held PARTNER

Dated the 31st day of JULY 1969

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- (1) Here state "Engineering Trainee", "Graduate Assistant" or other suitable designation denoting that the person has undergone engineering training.
- (2) The nature of the work on which the person under training has been engaged is to be stated overleaf and certified by the Engineer.

[OVER

Brief particulars of the nature of the works on which engaged during the period of training:

24th July, 1967 to 31st October, 1968 - Bridges Section, Glasgow Office

Glasgow Inner Ring Road, Woodside 2

Structural design and contract drawings for:-
Deck and Substructure of a skew Bridge,
Abutments,
Retaining Walls

1st November, 1968 to 24th July, 1969 - Roads Section, Glasgow Office

Glasgow Inner Ring Road. Woodside 2, Renfrew Motorway Stage 1 and
Brandon Street By-Pass Motherwell

Preliminary Graphic Design
Horizontal and Vertical Geometry Calculations
Contract Drawings
Preparation of Bills of Quantities
Surveying and Levelling

Supervision of Ground Investigation Contract

Signature of Candidate

James P. McCafferty

I certify that the above information is correct (Signature).....

So, me

The Institution of Civil Engineers

Glasgow and West of Scotland Association

Established 1884 — Incorporated 1939

Graduate and Student Section

Assistant Honorary Secretary:—

Chairman :—

T.M. HOWIE, B.Sc., A.M.I.C.E.

Department of Civil Engineering,
Paisley College of Technology,
High Street,
PAISLEY.

31st January, 1968.

James P. McCafferty, Esq.,
18 Gallowhill Grove,
Kirkintilloch,
GLASGOW.

Dear Mr. McCafferty,

I am writing on behalf of the Graduate and Student Section of the Glasgow and West of Scotland Association to congratulate you on your election to membership of the Institution and to let you know of the activities of the Section.

The Graduate and Student Section meets once per month, during the winter months, in the Institution of Engineers and Shipbuilders at Elmbank Street, Glasgow which is next to the King's Theatre. The meetings, which are preceded by tea served from 5.30 p.m., begin at 6.00 p.m. and normally last for less than two hours. The meetings consist of papers given by external speakers on topics suitable for graduates and students or papers given by members of the Section followed by general discussion. Other activities include visits to sites and works of general interest and social events.

The activities of the Section are organised by the Assistant Honorary Secretary, a committee of six composed of graduates and students and a Chairman who is also a Vice Chairman of the main Association.

In addition to the above activities you are also invited to take part in the meetings of the main Association.

I hope that this letter will encourage you to take part in the activities of the Institution and I look forward to welcoming you to our next meeting on 15th February 1968 or at some future meeting.

Yours sincerely,

Thomas M. Howie

T. M. Howie.

The Institution of Civil Engineers,
Great George Street, Westminster, S.W.1.

IMPORTANT CHANGES IN INSTITUTION EXAMINATION ARRANGEMENTS

ALL GRADUATES AND STUDENTS OF THE INSTITUTION (AND OTHERS CONSIDERING BECOMING CIVIL ENGINEERS) ARE ADVISED TO READ THIS CAREFULLY

The Council of Engineering Institutions will hold their first Part 1 Examination in October, 1967; and the Part 2 in April, 1968.

2. This examination, at the standard of a degree at a British University, will take the place of the traditional Examination of the Institution of Civil Engineers. The exemption list published in I.C.E.28. will also be superseded in 1970 by a C.E.I. list.

3. The various Parts of the Examination of the Institution of Civil Engineers will be discontinued after the following dates :

Part I	October, 1968
Part IB	October, 1969
Part II	October, 1970

4. It takes a minimum of 6 years to become qualified to take the Professional Interview — 3 years academic study and 3 years practical training and experience. At least 2 years of the practical training must be subsequent to passing or gaining exemption from the Institution Examination.

5. As a matter of urgency, Graduates and Students, and other candidates should study the list below to see how these examination changes will affect them. Unless they can meet the dead-lines and are elected Associate Members before 1st January, 1974, some will find themselves obliged to sit some part of the C.E.I. Examination.

<i>Qualification and date</i>	<i>Validity for corporate membership of I.C.E. AND for registration as Chartered Engineers</i>
1. College Diplomas and Associateships (notes (a) and (b)) awarded not later than 1970.	Valid provided corporate membership is achieved by 31.12.73. Failing that, some part of C.E.I. examination will have to be taken.
2. Degrees listed in I.C.E. 28. (i.e. previously recognised by I.C.E.) but not appearing in C.E.I. list.	Valid if corporate membership achieved by 31.12.73. Failing that, some part of C.E.I. examination (probably Part 2) may have to be taken depending on the recognition given by C.E.I.

<i>Qualification and date</i>	<i>Validity for corporate membership of I.C.E. AND for registration as Chartered Engineers</i>
3. College Diplomas and Associateships (note a) awarded after 1970.	Will obtain exemption from C.E.I. examination Part 1 if obtained before 31.12.73.
4. I.C.E. Examination Parts I and II.	Valid provided corporate membership achieved by 31.12.73.
5. I.C.E. Examination (Part I (A and B)) only, passed at any time.	All of C.E.I. examination will have to be taken or an exempting qualification.
6. H.N.C. in Civil Engineering (in approved subjects) obtained in or before 1965.	Valid provided corporate membership achieved by 31.12.73.
7. H.N.C. in Civil Engineering (whatever subjects) obtained after 1965.	All of C.E.I. examination or exempting qualification will have to be taken unless the candidate is successful in passing the I.C.E. Exam. Part II by October, 1970.

NOTES: (a) Diplomas and Associateships of Colleges listed in I.C.E.28.

(b) Detailed information on which subjects will have to be taken in the C.E.I. Examination will be available in 1970 on application to the Secretary.

The Institution of Civil Engineers,

Great George Street, Westminster, S.W.1.

TELEPHONE:
01-839 3811

TELEGRAMS:
INSTITUTION LONDON - SW1

Secretary:
J. G. Watson, C.B., B.Sc. (Eng.),
M.I.C.E., F.I.E.E.
Chartered Engineer



Our reference
Your reference

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Dear Sir,

In sending you the formal letter informing you that you have been admitted as a Graduate of the Institution, I wish to take the opportunity to send you personally my best wishes and to express the hope that you may be successful in the career upon which you have embarked.

I hope that you will make every use of the Institution which may be possible, and above all, that you will attend the Meetings of the Institution in London, or the Local Associations wherever you may be, as I am sure that you should derive a great benefit from meeting many of your fellow engineers, not only socially but in the course of debates on technical problems, which take place on the Papers which are read before the Meetings.

The address to which this letter is sent has been recorded here as your permanent address and any change should be notified to me immediately in order that you may receive promptly notices etc. issued from this office.

Your present place of residence brings you within the area of the GLASGOW & WEST OF SCOTLAND (INC ORKNEY & SHETLAND ISLES) Association, and I trust you may support its activities. Your name and address are being communicated to the Honorary Secretary of that Association, who will, no doubt, be sending you a programme of its activities in due course.

If at any time there is any way in which I can assist you with information or advice, I shall be most happy to do so should you call at the Institution or write to me at the above address.

In addition to the privilege of taking part in all the Institution activities you will be entitled to receive, free of charge, the Proceedings which are issued every month, ~~and in this connection you will find herewith a copy of the most recent issue.~~

The Institution has a well-equipped Library at its headquarters in Great George Street, and for those who are unable to call there, loan facilities are available, particulars of which can be had on hearing from you.

Yours faithfully,

J.P. McCafferty, Esq., B.Sc.,

18 GALLOWHILL GROVE,
KIRKINTILLOCH,
GLASGOW

THE INSTITUTION OF CIVIL ENGINEERS
Great George Street, Westminster, S.W.1.

AWARDS FOR GRADUATES AND STUDENTS

THE JAMES FORREST MEDAL

In 1897, Mr James Forrest asked that part of a sum of money subscribed by past and present members of the Council to bestow upon him as a token of their esteem be applied to the foundation of a medal to be awarded to the writer of the best Students' paper presented to the Institution. A silver medal is awarded in the ordinary course annually to the Graduate or Student of the Institution who contributes the best paper received from that class.

JAMES PRESCOTT JOULE MEDAL

The medal is placed every third year at the disposal of the Council of the Institution by the Town Clerk of Salford, acting on behalf of the trustees who administer the endowment fund, for award to a Graduate (who has not passed his 27th birthday) or a Student of the Institution for the best paper presented on an engineering subject, preferably one dealing with the transformation of energy.

The medal will next be awarded in 1970.

MILLER PRIZES

Instituted following a bequest made to the Institution by Joseph Miller (1797-1860), M.I.C.E., who was associated with marine engine design.

The income from the endowment fund is used annually to provide eight prizes, to the value of £30 each, for Graduates or Students of the Institution, on the same principles as the Telford Fund.

RUSSELL ALLIN PRIZE

Instituted in 1958, in memory of Russell Allin (1881-1957), M.I.C.E., a pioneer in soil mechanics.

The income from the endowment fund is used to provide an annual premium of £25 for a paper, by a Graduate or Student, dealing with foundations, either in general or in any of their aspects, e.g. theory, research, design, construction, testing, or with a particular form of foundation.

(Revised by Council:
17 October 1967)

The Institution of Civil Engineers

GREAT GEORGE STREET, WESTMINSTER, LONDON, SW1

J.P. McCAFFERTY, ESQ., B.Sc.,

18 GALLOWHILL GROVE,
KIRKINTILLOCH,
GLASGOW.

20th. December 1967.

Dear Sir,

I have the honour to inform you that the Council of The Institution of Civil Engineers, meeting on the 19th. day of Dec., 1967. admitted you as a Graduate of The Institution.

According to the By-laws of The Institution, you are required to pay the sum of £7 for 968 being the amount of your first subscription, within two months* from the date of your admission, otherwise the admission will be void. When such payment has been made, you will become entitled to the privileges of your class.

I beg to direct your attention to the By-laws and to point out that all annual subscriptions become due on the 1st January in each year for the year then commencing.

Yours faithfully,



Secretary

N.B. The fee of £2 for the registration of your preliminary educational qualification and your exemption from Parts I and II of the Institution Examination should be remitted at the same time.

Drafts should be made payable to The Institution of Civil Engineers, and crossed "Coutts & Co."

* DUE ALLOWANCE WILL BE MADE IN THE CASE OF GRADUATES RESIDENT ABROAD. ONLY ONE ADDRESS CAN BE REGISTERED AGAINST EACH NAME ON THE ROLL, AND TO THAT ALL COMMUNICATIONS, INCLUDING THE PUBLICATIONS, WILL BE ISSUED.

6/67

The Institution of Civil Engineers,

Great George Street, Westminster, S.W.1.

TELEPHONE: 01-839 3611

TELEGRAMS: INSTITUTION LONDON - SW1

316B/2

22 November, 1967

J.P. McCafferty, Esq., B.Sc.,
18, Gallowhill Grove,
Kirkintilloch,
Glasgow,
Scotland.

Dear Sir,

GRADUATE No. 288/149

I have to acknowledge the receipt of a recommendation for your admission as a Graduate of this Institution, which will be submitted to the Council in due course.

Your academic qualifications have been registered here and the fee of £ 2 payable for such registration should not be forwarded until you have been formally notified of your admission as a Graduate.

The document(s) mentioned below returned herewith.

Yours faithfully,



Secretary

THE INSTITUTION OF CIVIL ENGINEERS

Great George Street,
Westminster, S.W.1.

APPLICATION FOR ADMISSION AS A GRADUATE

SURNAME McCAFFERTY Other names in full JAMES PATRICK
of 18 GALLOWHILL GROVE, KIRKINTILLOCH, GLASGOW
(Address in full)
born on the 16 day of August, 1945, of BRITISH nationality,

being desirous of admission as a Graduate of THE INSTITUTION OF CIVIL ENGINEERS, I recommend him, from PERSONAL KNOWLEDGE, as worthy of that privilege, and as coming within the Regulations appertaining to that class namely: that he is under 38 years of age, and is in course of regular practical training or of obtaining experience under me in the design and/or construction of such works as are comprised within the profession of a Civil Engineer as defined by the Charters.

E. O. Meason [E. O. MEASON] { Signature of the Engineer under whom the candidate is training or obtaining experience.
(Please print name after signature)

Grade (if in The Inst. C.E.) MEMBER
Official or other Position PARTNER, SCOTT WILSON KIRKPATRICK & PARTNERS

EXAMINATIONS

(Note: Evidence of exempting qualifications must be produced. Photo copies may be sent).

Qualified in respect of Parts I and II of the Institution Examination:

Either { by recognised exempting degree, diploma or certificate BSc (Hons) (Date) June 1967
course of study at UNIVERSITY of STRATHCLYDE from 1963 to 1967
or { Passed: Part I of Institution Examination (Date) _____
Part II of Institution Examination (Date) _____

If a present or former Student of the Institution (give year of admission) _____

Brief particulars (with dates) of engineering training and experience Assistant under Agreement commenced July 1967 with Scott Wilson Kirkpatrick + Partners

At present occupied as A. U. A. under E. O. Meason

James P. McCafferty Signature of candidate

Dated this 15 day of November 1967.

For official use { The Council, having considered the above recommendation, admit _____
as a Graduate of The Institution of Civil Engineers.
Passed by the Council _____ 19 _____, Signed _____

Chairman
[SEE OVER

EXTRACTS FROM THE BY-LAWS AND REGULATIONS

(a) By-laws

CONSTITUTION

2. THE INSTITUTION OF CIVIL ENGINEERS shall consist of Members and of Associate Members, all of whom are collectively referred to as Corporate Members. The Institution may also have attached to it Honorary Members, Associates, Graduates and Students, all of whom are collectively referred to as Non-Corporate Members.

The names of all Corporate and Non-Corporate Members shall be entered on the roll of the Institution (hereinafter referred to as "the Roll"). A member who changes his name shall thereupon inform the Secretary stating his former name and the Secretary shall amend the Roll accordingly.

7. GRADUATES shall comprise every person who has been admitted into the class of Graduates so long as his name is on the Roll as such. They shall be persons who with respect to their age, their educational attainments, their practical training, their employment and otherwise comply with such of the Regulations as apply to Graduates.

ADMISSION OF GRADUATES AND STUDENTS

17. The admission to the classes of Graduates and Students of persons qualified in accordance with By-laws 7 and 8 respectively shall be by the Council. The continuance of any person as a Graduate or as a Student shall be subject to the Regulations.

PRIVILEGES OF GRADUATES AND STUDENTS

18. Graduates and Students shall be entitled to attend all meetings of the Institution other than the Annual General Meetings and Special General Meetings and to have the use of the Library and Reading Rooms (subject to the Rules). They shall be entitled to receive copies of such Institution publications as the rules may provide. Graduates and Students, in common with other members shall be eligible to compete for the Scholarships, Premiums and Prizes.

19. Graduates and Students shall have such other privileges as the Rules may provide.

(b) Regulations

1. Expressions used in these Regulations shall have the meanings assigned to them by the By-laws of the Institution.

2. Upon producing evidence of having passed the Institution Examination or of holding qualifications recognised by the Council as exempting therefrom, a person under the age of 38 years at the date of lodgement of his application form, who satisfies the Council that he is in course of regular practical training or of obtaining experience in the design and/or construction of such works as are comprised within the profession of a civil engineer may be admitted as a Graduate on the recommendation (according to

Form B) of the engineer under whom he is serving; and he may remain a Graduate of the Institution, at and during the pleasure of the Council, until the end of the seventh year from the date of his admission as a Graduate, provided that no person shall be entitled to remain a Graduate who shall be qualified for election as an Associate Member.

3. Every Candidate admitted as a Graduate shall be informed thereof by letter (according to the Form F), stating that the first year's subscription must be paid within two months, otherwise the admission will be void.

CONTRIBUTIONS TO THE FUNDS

The Annual Subscription due from Graduates resident or engaged in the British Isles is £7.0.0., and Oversea is £6.0.0.

N.B. No remittance to be sent with this form.

FORM OF UNDERTAKING

approved by the Council of

THE INSTITUTION OF CIVIL ENGINEERS

for use in connexion with the practical training of Graduate Assistants to Engineers

Mr JAMES PATRICK McCAFFERTY an Engineering Graduate of

STRATHCLYDE University, has entered my service for a period of two years,

namely from 24.7.67 to 23.7.69 as a Graduate Assistant,

and I hereby UNDERTAKE to give him opportunities for practical training in the planning, design and execution of engineering works as carried out normally in my service, together with the facilities usually afforded to Indentured Pupils for acquiring knowledge of the profession as a civil engineer.

His continuance in my service for the period mentioned will be subject to satisfactory work and conduct, and to conditions of business admitting thereof, and I also UNDERTAKE to notify the Council in the event of the cancellation of this Undertaking from any of these causes.

Date 27 JUL 1967

Signature of Engineer E. O. Measor

(E. O. MEASOR)

Grade in Inst.C.E. or
description MEMBER

It is my intention to avail myself of the above-mentioned opportunities for my practical engineering training for the full period referred to and I undertake diligently to serve Mr MEASOR as a Graduate Assistant.

Date 26 July 1967

Signature of person
under training James P Mc Cafferty

Attention is drawn to the notes printed overleaf.

It is very important for the form I.C.E. 3 to be forwarded to the Institution for registration as soon as the candidate enters into an agreement for practical training with his Employer.

From an Examination of the By-laws governing election to Associate Membership of the Institution, it will be seen that an Engineering Graduate of a University recognized by the Council can qualify for election :

- (a) by obtaining two years' practical training under agreement to an approved Engineer as a pupil, or engineering trainee, or as a graduate assistant under a Civil Engineer, and by having, in addition, one year of engineering experience ;
- (b) in the absence of any agreement to obtain practical training, by obtaining four years' engineering experience.

Under (b) he generally obtains employment as an Assistant or as an assistant Engineer and acquires engineering experience of a practical character in the course of his employment, which may prove of limited extent in view of the fact that there is no obligation on the part of the employer. On the other hand, under (a), the Engineering Graduate who enters into a definite agreement for the purpose of being trained, is afforded opportunity of obtaining practical knowledge of engineering design and construction of a varied character both in the Engineer's drawing/or designing office, and in or upon actual constructional work.

When there is a formal undertaking by an Engineer to give such training, and he subsequently certifies that the trainee has availed himself properly of the opportunities given for such training, it will be seen that the Council accept a shorter qualifying period for election than in the case of an Engineering Graduate who does not enter into any agreement.

With regard to the Form I.C.E. 5 certifying that a person has obtained training under agreement, the Council are of the opinion that this has been used consistently in a manner for which it was not intended, there being ample evidence that it has been signed in retrospect by Engineers for the sole purpose of bringing a person's qualifications into line with the requirements of the By-laws governing election, when in fact no undertaking to provide practical training was given or entered into at the commencement of the period certified.

May, 1964