

Interim Report on CPD Courses. (Sept2018)

With the kind help of many members who responded to our survey and further research we have compiled an interim but useful information source all about CPD Courses.

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None at present but watch this space.

Section 1.

Background.

With the kind help of many members who responded to our survey and further research we have compiled a useful information source all about CPD Courses.

The information herein is not complete as with the inputs from members we hope to add to the information. Please help us to help you!

We are unfortunately not able to give any figures as to the costs of any CPD courses as we found that the costs often changed depending on circumstances and sometimes after obtaining figures!

An agreement between the Institute of Professional Engineering Technologist (IPET) and the Chamber of Engineering Technology (COET) exists in that courses by providers that were assessed by IPET and / or COET would be available to members of IPET and COET at a discounted rate to what non-members would have to pay. The discount varies from 10% to 15% depending on the course.

The COET and IPET assessed courses are listed in section 3 and 4 below

When asking providers about their courses first establish the cost and check to see that any discounts have been neglected! The next step is to obtain the ECSA accredited CPD course title and number. You can then check by checking on the ECSA Website. See www.ecsa.cop.za.

Good luck here as it seems that the ECSA Website does not always work correctly!

Please be aware that many providers offer courses that are not CPD rated for claiming credits at ECSA. (CPD is a generic term and used by other bodies so checking that this applies to ECSA CPD is essential. CPD is required by the Health and Projects bodies and these usually do not count for ECSA credits).

Section 2.

Continuing Professional Development (CPD). Brief Details of the Scheme.

The Engineering Council of South Africa (ECSA) approved a formal system affecting all registered engineering practitioners which became into effect from 1st January 2006.

CPD may be defined as "the systematic maintenance, improvement and broadening of knowledge and skills, and the development of personal qualities necessary for the execution of professional and technical duties throughout an engineering practitioners career".

The Engineering Profession Act 46 of 2000 requires that registered practitioners have to renew their registration at regular intervals. ECSA decided that the most appropriate way to implement the Act would be to link renewal of registration with CPD.

ECSA attempted to design a system that is not a millstone around the necks of registered practitioners. This system includes attendance at educational / academic courses as well as work-based activities. The 5 credits per year or 25 credits to be acquired over a 5-year period should be easily achieved with the three categories of CPD. While a minimum of 3 credits must be earned per year, some excess credits can be carried over.

Category 1 of the CPD requirements is the one that most registered [persons have the most difficult time fulfilling. Category 2 and 3 are relatively easy to achieve. The lists in Section 3 onwards may prove useful in finding CPD courses.

Extracts from the ECSA Website (www.ecsa.co.za) show the following CPD rules.

BOARD NOTICE 86 OF 2017

The Engineering Council of South Africa

Rules: Continuing Professional Development and Renewal of Registration

TABLE B: CATEGORY ACTIVITIES

Categories	Activities	Credits
Category 1	Developmental Activities	Minimum of five (5) credits per five-year cycle
Category 2	Work-based Activities	
	Engineering work	Maximum two (2) credits per year <i>(300 notional hours/1 credit)</i>
	Mentoring of candidate engineering practitioners	Maximum one (1) credit per year <i>(50 notional hours)</i>
Category 3	Individual Activities	
	Membership of a recognised Voluntary Association	Maximum one (1) credit per year
	Other Activities	Credits as listed on ANNEXURE A

APPENDIX A

CATEGORIES OF CPD ACTIVITIES

Category 1: Developmental Activities

Attendance of structured educational/developmental meetings will be credited with one (1) credit per ten (10) notional hours. A full day activity is regarded as being ten (10) notional hours and a half-day activity is regarded as five (5) notional hours, hence half a credit. A minimum of five (5) credits (50 notional hours) must be accumulated over a five-year cycle and may be undertaken in any period within the five (5) year cycle. Additional credits earned in a five-year cycle are not transferrable to the following cycle.

- Conferences
- Congresses
- Large group workshops
- Lectures
- Seminars
- Refresher courses
- Colloquiums
- E-learning
- Relevant additional completed accredited qualifications at benchmark level or above = (five (5) credits).
- Relevant additional qualification (these are exceptional qualifications). A completed post graduate qualification = (five (5) credits).

Category 2: Work-based Activities:

Since registered persons also improve their knowledge and competence by performing their day-to-day engineering responsibilities, a weighting of one (1) credit for every 300 notional hours per year for engineering related work (including management) is awarded in this category. A maximum of two (2) credits for 600 notional hours per year may be earned in respect of this activity.

In addition, the mentoring of candidate persons in the workplace will be recognised as a CPD activity with a maximum of one (1) credit for 50 notional hours of mentoring per year. In-house skills training sessions organised by employer/engineering company as well as career guidance for candidates may also be presented under this sub-category.

Category 3: Individual Activities

Membership of an ECSA recognised *Voluntary Association* will result in a maximum of one (1) credit per year.

Other activities include and will be credited as follows:

- Part-time lecturing to undergraduate and postgraduate students: one (1) credit for every 10 notional hours of lecturing.
- Supervision of students undertaking postgraduate studies: two (2) credits per year.
- Supervision of oral examinations of final year and postgraduate students: one (1) credit for every 10 notional hours of active involvement.
- Evaluation of M dissertations and PhD theses by external examiners: two (2) credits per year.
- Evaluation of final year engineering student's by external examiners: one (1) credit per year.
- Publication of research papers in peer reviewed journals: a single author: two (2) credits per publication. Where paper has a number of authors: one (1) credit per publication per author.
- Publication of technical articles: one (1) credit per article published.
- Papers presented at conferences or congresses/poster presentations: one (1) credit each.
- Participation in statutory, professional, institutional, engineering or non-engineering committees or task groups: one credit for every 10 notional hours of active participation.
- Evaluation of educational programmes at Universities and Universities of Technology for accreditation purposes: one (1) credit for every 10 notional hours of active involvement. Evaluation of educational qualifications for ECSA's Committee: one (1) credit for every 10 notional hours of active involvement.
- Evaluation of competence and applications for registration for ECSA's Committees: one (1) credit for every 10 notional hours of active involvement.
- Self-study which includes, but is not restricted to studying of journals or electronic or computerized material, one credit for every 10 national hours of study. All activities under this item must be verified.

Section 3.

Chamber of Engineering Technology (COET) Assessed CPD Courses.

List.

<u>ECSA Validation Number</u>	<u>Description</u>	<u>Provider</u>	<u>Hours</u>	<u>Credits</u>	<u>Validity dates</u>
CET 0246/1	Introduction to Mobile Crane Inspection	CraneMec Group SA cc, PO Box 921, Henley on Klip, 1962. Tel 016 366 1393, Fax 016 366 1392, E Mail info@cranemec.co.za	30	3	2018/02/20 to 2021/02/19
CET 0278	Lift Plan and the Law	Rigging Academy SA, PO Box 14344, Wadeville,1422. Tel 072 331 4162. E Mail arni.rasa@mme.co.za	10	1	2015/09/06 to 2018/09/05
CET 0279	Load calculations	Rigging Academy SA, PO Box 14344, Wadeville,1422. Tel 072 331 4162. E Mail arni.rasa@mme.co.za	10	1	2015/09/06 to 2018/09/05

CET 0280	(LTI) Lifting Tackle Inspection	Rigging Academy SA, PO Box 14344, Wadeville, 1422. Tel 072 331 4162. E Mail arni.rasa@mme.co.za	20	2	2015/09/06 to 2018/09/05
CET 0281	Lifting Tackle Selection and Safe Application	Rigging Academy SA, PO Box 14344, Wadeville, 1422. Tel 072 331 4162. E Mail arni.rasa@mme.co.za	10	1	2015/09/06 to 2018/09/05
CET 0282	Mobile Cranes: Understanding the Load Chart in Relation to the Computer (RCI).	Cranemec Group SA, P O Box 921, Henley-on-Klip, 1962. Tel 016 366 1393, Fax 016 366 1392, Cell 083 268 4857, E mail info@cranemec.co.za	10	1	2015/09/22 to 2018/09/21
CET 0283	Troubleshooting and Best Practice with Conveyors and Chutes	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0191/16	Electrical Drawings & Schematics	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0193/16	Power Electronics & Switch Mode Power	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0194/16	Practical Industrial Electronics for Engineers and Technicians	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0195/16	Practical Specification & Technical Writing for Engineers & other technical people	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14

CET 0200/16	Maintenance & Troubleshooting of Uninterruptible Power Supply (UPS) Systems & Batteries	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0202/16	Practical Embedded Controllers; Trouble Shooting & Design	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0204/16	Practical Troubleshooting & Problem Solving of Industrial Data Communications	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0207/16	Electrical Power System Fundamentals for Non- Electrical Personnel	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0210/16	Practical Boiler Control & Instrumentation for Engineers & Technicians	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0212/16	Practical Hazops for Engineers & Technicians	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0217/16	Practical Radio Telemetry Systems for Industry	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0218/16	Practical Boiler Plant Operations & Management for Engineers & Technicians	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14

CET 0228/16	Fundamentals of Mechanical Engineering	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0229/16	Earthing of Utility and Industrial Distribution Systems	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0234/16	Troubling shooting, Design & Installing Digital & Analog Closed Circuit TV Systems	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0235/16	Practical Energy Efficiency, Design, Engineering and Auditing	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/08/15 to 2019/08/14
CET 0125/16	Shielding, EMC / EMI, Noise Reduction, Earthing & Circuit Board Layout	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/09/15 to 2019/09/14
CET 0155/16	Installing, Programming & Commissioning of Power System Protection Relays & Hardware	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	20	2	2016/09/15 to 2019/09/14
CET 0160/16	Safe Operation & Maintenance of Circuit Breakers & Switchgear	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	40	4	2016/09/15 to 2019/09/14
CET 0169/16	Practical Electrical Safety Techniques for Industry	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	50	5	2016/09/15 to 2019/09/14

CET 0188/16	Practical Data Communications & Networking for Engineers & Technicians	IDC Technologies, PO Box 389, Halfway House, Midrand, 1685. Tel 011 312 0104/011 312 0092, Fax 086 558 7424, E mail isabel@idc-online.co.za, cheryl@idc-online.co.za	10	1	2016/09/15 to 2019/09/14
CET 284	Mobile Crane Inspection, Load Testing & Safety Aspects	Forklift Safety Testing cc,6 Libertas Rd, Pinelands, 7405. Tel 021 531 3279, 083 261 5499	10	1	2017/04/02 to 2020/04/01
CET 285	Introduction to Lifting Tackle	Forklift Safety Testing cc,6 Libertas Rd, Pinelands, 7405. Tel 021 531 3279, 083 261 5499	10	1	2017/06/26 to 2020/06/25
CET 286	The Lead Acid Battery	Chamber of Engineering Technology, PO Box 1269, Ferndale, Randburg, 2160	5	0.5	2017/06/26 to 2020/06/25
CET 287	Laws around the LMI	Forklift Safety Testing cc,6 Libertas Rd, Pinelands, 7405. Tel 021 531 3279, 083 261 5499	10	1	2017/06/26 to 2020/06/25
CET 288	Mobile Elevated Working Platforms MEWPS	Forklift Safety Testing cc,6 Libertas Rd, Pinelands, 7405. Tel 021 531 3279, 083 261 5499	10	1	2017/10/04 to 2020/10/03
CET 290	Forklifts (counter balanced)	Forklift Safety Testing cc,6 Libertas Rd, Pinelands, 7405. Tel 021 531 3279, 083 261 5499	10	1	2018/07/25 to 2021/07/24
					CpdCourseList

NB!

Members should contact the above providers direct to establish when and where courses are scheduled

Members are reminded that they are entitled to claim a 10 % to 15% discount on the fee from the provider on the fee from the provider, as this is part of our assessment agreement with them.

This only applies to the above courses and providers.

Section 4.

Institute of Professional Engineering Technologists (IPET) Assessed CPD Courses.

IPET CPD Course List			Hours	Credits	IPETNewsCPD List
IPET 2015/11	Investment Planning Water Distribution, Sewer Collection Systems, Recycled Water, Drip Irrigation &	Allan Resssman, 104 – 12 th St; Orange Grove, 2192, Tel 011 640 1220, Fax 011 640 2692. E Mail aresman@mweb.co.za	20	2	2015/10/01 to 2018/09/30

	Agriculture, Significant Economic & Financial Savings & Value Added Engineering				
IPET 2015/14	Investment Planning Water Distribution, Sewer Collection Systems ,Recycled Water, Drip Irrigation & Agriculture, Significant Economic & Financial Savings & Value Added Engineering	Allan Recessman, 104 – 12 th St; Orange Grove, 2192, Tel 011 640 1220, Fax 011 640 2692. E Mail aressman@mweb.co.za	20	2	2015/10/01 to 2018/09/30
IPET 2017/01	Contractual Landscape for Built Environment Professionals	6CDS, 434 Miller Mile, Lynwood, Pretoria, 0081. Tel 082 v737 5532, johan@6cds.co.za	10	1	2017/03/01 to 28/02/2020
IPET Members are reminded to ask for the 10% discount on these courses as per the validation agreement with the provider.					

Section 5.

Other Courses from Other Providers.

Kindly note that a few are on line but most are not..

<https://www.alusani.co.za/accreditation-cpd-activities-preview>

Various Courses.

<http://kaytech.co.za/welcome-to-the-kaytech-online-cpd-lecture-series/> (Civil)

Only 1 stipulation: you must start with the introductory lecture #1. Thereafter, you can complete the others in any order you wish.

Once you've watched an entire lecture, click through to the questionnaire to claim your CPD points. You'll be able to download and print your CPD certificate straight afterwards. The Kaytech courses appear to be free!

The 7 lectures are:

- [1. Introduction to Geosynthetics](#)
- [2. Filtration and Drainage with Geosynthetics](#)
- [3. Erosion Control with Geosynthetics](#)
- [4. Soil Reinforcement with Geosynthetics](#)
- [5. Lining Systems with Geosynthetic Clay Linings \(GCLs\)](#)
- [6. Bitumen-Based Formed In-Situ Dam Lining with Geosynthetics](#)
- [7. Road Pavement Maintenance with Geosynthetics](#)

<http://www.infrastructurere.ws/course/cpd-on-demand-2018/> (IMIESA)

(Costs+/- R1940 each)

Courses such as

- Understanding Electrical Heat Tracing
- Avoiding Disputes in Construction Contracts
- Managing SA Water Resources.
- The Engineering Pattern Shop.
- Understanding Membrane Technology for Water Treatment
- Plus other courses.

<https://sarf.org.za/training-courses/>

Courses such as

- [Hydrological and Hydraulic Assessment + HEC-RAS apprentice Course](#)
- [Concrete Road Design and Construction](#)
- [Traffic Safety Officer / Roadworks Traffic Management](#)
- [Hydrological and Hydraulic Assessment](#)
- [Introduction To Road Materials Engineering](#)
- [Hydrological and Hydraulic Assessment](#)
- [Perspectives on Traffic Impact Assessment](#)

Plus other courses.

<http://www.cesa.co.za/node/162>

Courses such as;

- Advanced Tendering Workshop
- [Comparing Construction Contracts](#)
- [Construction Claims Dispute Resolution & Expert Witness](#)
- Contract Law
- [Delay disruption & Extension of Time](#)

Plus other courses.

<https://www.theconcreteinstitute.org.za/>

Courses such as;

Properties of Concrete for the Structural Designer of Concrete

Durability of Concrete.

Plus other courses

management@oceanstechnology.co.za

Courses such as;

Marine Engineering and Offshore

Plus others.

<https://cpdonline.saiee.org.za/calendar/cpdcalendar.aspx>

Courses for Electrical Engineering.

<https://www.prokon.com/>

Courses such as;

Analysis and Design

[Frame and finite element analysis](#)

[Steel member design](#)

[Steel connection design](#)

[Reinforced and pre-stressed concrete design](#)

Plus other courses.

<https://www.theiet.org/membership/career/courses/webinars/eclasses.cfm>

The Institution of Engineering Technology

UK Based Courses.

School of Consulting Engineering

<http://www.cesa.co.za/sce>

Various Courses

www.ills.co.za

Various courses

<https://www.civildesigner.com/>

contact shantell@knowbase.co.za

<https://oxfordcollege.co.za>

Oxford College Capacity Solutions -

A Division of Berry-M Consulting & Projects

training@oxfordsolutions.co.za

Section 6.

University Courses.

Universities offer full time courses but very few, if any, offer engineering related CPD short courses. You have to check with them as occasionally they may offer a short CPD accredited course.

University of Cape Town

<http://www.ebe.uct.ac.za/ebe/study/cpd>

Various Courses.

Durban University of Technology (DUT)

<http://www.dut.ac.za/>
www.dut.ac.za/short_courses/

University of Johannesburg (UJ)
<https://www.uj.ac.za/faculties/febe/Pages/Short-Courses.aspx>

University of Kwa Zulu Natal
<https://www.ukzn.ac.za/>
<https://ukznextendedlearning.com/>

Monash University
<https://www.msa.ac.za/>
B Eng full time but no CPD courses listed.

University of North West
<http://www.nwu.ac.za/adc/short-courses-and-extended-degree-programmes>

University of Pretoria.
<http://www.ce.up.ac.za/cpd-home?id=cpd>
<http://www.enterprises.up.ac.za/training-solutions/fields-of-study/engineering-courses/>
Courses such as
Rail Safety Audits, Investigation and Reporting
Plus others.

University of South Africa (UNISA)
<https://www.unisa.ac.za>
B Eng (full time) but no CPD courses listed.

Tshwane University of Technology (TUT)
www.tut.ac.za/other/SLPs/about

Vaal University of Technology (VUT)
<https://www.vut.ac.za>
N D, B Eng but no CPD Courses

University of Western Cape
<https://www.getsmarter.com/courses/university-of-cape-town>

University of the Witwatersrand (WITS)
<https://wits-enterprise.co.za/short-courses>

Cape Peninsula University of Technology (CPUT)
<https://www.cput.ac.za>
Short courses offered but no CPD courses when checked.

Nelson Mandela Metro University
<https://www.mandela.ac.za>

Central University of Technology (CUT)
www.cut.ac.za

University of Stellenbosch
<https://www.sun.ac.za>

See Websites for details.

For rankings of SA Universities see;

https://en.wikipedia.org/wiki/Rankings_of_universities_in_South_Africa

Section 7 Cheap & Free CPD courses.

The Kaytech courses appear to be free.

<http://kaytech.co.za/welcome-to-the-kaytech-online-cpd-lecture-series/>

No other free courses were available at the time of compiling this list.

However watch this space as we are attempting to address this need in the future.
