

LIST OF STANDARDS, NORMS AND SPECIFICATIONS

This is a comprehensive list of the most applicable and available standards, specifications and literature required, by a PMU, to ensure high quality infrastructure and best management practice. These resources can be scoped and purchased as part of the PMU Business Plan allocation. The information can be acquired from the SAICE office or www.saice.org.za as well as www.sans.org.za or further enquiries from the dplg Macro Control Advisor for MIG support.

GENERAL INTEREST/ Success Philosophies/ Motivational

	Rand
Guidelines for Mentors – E&T002 2 nd Edition – March 2003	25.00
Guidelines for Professional Registration of Civil Engineers – E&T 101 3 rd Edition – March 2003 (Separately)	25.00
Guidelines and Procedures for Reviewers E&T 103 2 st Edition – March 2003	45.00
Guidelines for Mediation	35.00
Numbers & Needs – Addressing imbalances in the civil engineering profession	295.00 / 395.00
Procedure for the appointment of a mediator/arbitrator and panel of mediators	40.00
Registration Package: Professional Registration for Civil Engineers	85.00
The High Road – Where are we now? – Clem Sunter	55.00
The Success Principles – Jack Confield (2005)	160.00
What it really takes to be World Class – Clem Sunter	55.00

CONSTRUCTION

GCC – General Conditions of Contract (2004)	275.00
The new Red Book: Guidelines for human settlement planning and design – CSIR Building and Construction Technology (2005) (Volume 1&2)	684.00
Algemene Kontrakvoorwaardes vir die Konstruksie van Siviele Ingenieurswerke, 6de Uitgawe 1990 (Blou Boek) (50% discount to students with valid cards)	100.00
Ecological Sanitation: A Sustainable, integrated solution	500.00
General Conditions of Contract for Works of Civil Engineering Construction, Sixth Edition 1990 (Blue Book) (50% discount to students with valid cards)	100.00
General Conditions of Contract for Construction Works (First Edition) 2004 (50% discount to students with valid cards)	275.00
CIDB – Best Practice Guidelines for CIDB Labour Based Methods and Technologies for Employment intensive Construction Works (File + CD)	295.00
Civil Engineering Quantities, 1990 – A Guide for Determining and Using Quantities for Civil Engineering Construction Contracts (50% discount to students with valid cards)	100.00
SAICE Practice Manual #1: The use of South African National Standards in Construction Procurement (2004) (50% discount to students with valid cards)	275.00
SAICE Practice Manual #2: Delivering construction projects using the Design by Employer Contracting Strategy (2004) (50% discount to students with valid cards)	275.00
SAICE's Quick Guide to Construction Procurement (2004) (50% discount to students with valid cards)	50.00
SAICE Practice Manuals #1 and #2 and the Quick Guide to Construction Procurement (2004) (50% discount to students with valid cards)	500.00
SANS 294: 2004 – Construction procurement processes, methods and procedures	215.00
SANS 10396, Implementing preferential construction procurement policies using targeted procurement procedures (2003)	238.00
SANS ISO 9000:2005 Quality management systems – Fundamentals and vocabular	152.00

SANS ISO 9001 – Code of Practice – Quality management systems – Requirements	151.00
SANS ISO 9004 – Code of Practice – Quality management systems – Guidelines for Performance improvements	215.00
SANS 10403, Formatting and compilation of procurement documents (2003)	151.00
SANS 1914-1, Targeted Construction Procurement Part1: Participation of Targeted Enterprises (2002)	108.00
SANS 1914-2, Targeted Construction Procurement Part 2: Participation of partners in joint ventures (2002)	93.00
SANS 1914-3, Targeted Construction Procurement Part 3: Participation of targeted enterprises and targeted partners in joint ventures (2002)	108.00
SANS 1914-4, Targeted Construction Procurement Part 4: Participation of targeted enterprises and targeted labour (local resources) (2002)	93.00
SANS 1914-5, Targeted Construction Procurement Part 5: Participation of targeted labour (2002)	53.00
SANS 1914-6, Targeted Construction Procurement Part 6: Participation of targeted enterprises in concession contracts (2002)	108.00
SANS 1921-1, Construction and management requirements for works contracts Part 1: General engineering and construction works (2004)	108.00
SANS 1921-2, Construction and management requirements for works contracts Part 2: Accommodation of traffic on public roads occupied by the contractor (2004)	65.00
SANS 1921-3, Construction and management requirements for works contracts Part 3: Structural steelwork (2004)	108.00
SANS 1921-4, Part 4: Third-party management support in works contracts (2004)	93.00
SANS 1921-5, Part 5: Earthworks activities which are to be performed by hand (2004)	65.00
SANS 1921-6, Part 6: HIV/AIDS awareness (2004)	53.00
SABS 1200 Standardized Specifications for Civil Engineering Construction (1986 and on words)	2622.00
SANS 1200 Standardized Specifications for Civil Engineering Construction –CD Rom (1986 and on words)	2622.00
Standardizing procurement processes, procedures and methods – (July 2004)	40.00
CD-Rom Collection of SANS Construction Procurement Standards – July 2004 (SANS 294, SANS 1914-1 to SANS 1914-6 SANS 10396; SANS 10403 (2002)	1165.00

ENVIRONMENTAL

Environmental Law for All – A Practical Guide for the Business Community, The Planning Professions, Environmentalists and Lawyers – Duard Barnard	235.00
Guidelines for public participation in the planning of civil engineering projects (Environmental engineering)	60.00
Road Map to Environmental Legislation – Duard Barnard; Christo Barnard; Francois Friend; Hendrik Visser	150.00
Road Map to Environmental Legislation 2 nd Edition – Duard Barnard; Christo Barnard; Francois Friend; Hendrik Visser	171.00
12 th Annual SAICE Congress “Engineering a better Environment” Fancourt Conference Centre George 2-5 July 2001	250.00

GEOTECHNICAL

Code of Practice 1989 – Lateral support in surface excavations	120.00
Guide to Geotechnical Engineering in South Africa – Frankipile (1995)	80.00
Simplified colour chart for soil identification	20.00

WASTEWATER AND WATER

Wastewater Engineering 4 th Edition (Metcalf & Eddy) (2003)	2500.00
Hidropolitics <i>in developing world</i> - Anthony Turton / Roland Henwood (2002)	180.00
Wastewater Collection System Maintenance – Micheal J Parcher (1998)	220.00
Tapping the Market – Andrew Nickson & Richard Franceys (2005)	930.50
Wastewater Treatment - 2 nd Edition - Biological & Chemical Process (1997)	350.00
Water Quality Management Library (Volume 1-10) WW Eckenfelder / JF Malina (jr) / JW Patterson	4000.00

STRUCTURAL

Code of Practice: Assessment of the Performance of Housing Units in SA – June 2000	95.00
Code of Practice: Foundations and Superstructures for Single Storey Residential Buildings of Masonry Construction (First Edition 1995): Addendum to the Code of Practice	295.00
Checklist for Structural design, 1 st Edition 1996 (Young Engineers)	45.00
Design of Reinforced Concrete Structural Elements To SABS 0100-1:1992 - Greg Parrott	210.00
Design of Conveyor Structures – 4 November 1999 Midrand	90.00
Structural Steel Design To SANS 10162-1 2005: – Greg Parrott	210.00
Structural Concrete Masonry – design guide – FS Crofts and JW Lane	171.00

TRANSPORTATION

COLTO Standard Specification for Road and Bridge Works for State Authorities (2006) (Green Book)	200.00
Guidelines for planning and Design of Township Roads and Stormwater Drainage, 2 nd Edition, August 1981	35.00

THOMAS TELFORD PUBLICATIONS

GENERAL INTEREST

Communication for Professional Engineers 2 nd Edition 1997- Bill Scott & Bertil Billing	410.40
Decision Makers Ethics for Engineers The 1999 -James Armstrong, Ross Dixon and Simon Robinson	517.50
Effective Training for Civil Engineers 2 nd Edition 1999H MacDonald Steels	278.30
Successful Professional Reviews for Civil Engineers 1997 -H MacDonald Steels	259.50

CONSTRUCTION

Analysis, design and construction of steel space frames – GS Ramaswamy, M Eekhout, GR Suresh 2002	1160.00
Formwork Striking Times 1996 – CIRIA	615.60
Management of Concrete Structures for long –term serviceability 1997 - E Byars &T McNulty	478.80
Privatized Infrastructure: The Role of Government 1999 – Adrian Smith	610.00
Project Modelling in Construction – Seeing is Believing 1997 N Fisher, R Barlow, N Garnett, E Finch & R Newcombe	615.60
Strategic Procurement in Construction – Prof A Cox & M Townsend	478.80

ENVIRONMENTAL

Coastal Management: Putting Policy in Practice - Proceedings from ICE Conference 1996	615.60
Contaminated Land and its Reclamation 1997 - Edited by RE Hester & RM Harrison	342.00
Environmental Law for the Construction Industry 1998- Amanda Stubbs	324.30
Practical Recycling Handbook 1994 – The Kindred Association	342.00

GEOTECHNICAL

Immersed Tunnel Techniques 2 1997 - CR Ford	820.80
Risk and Reliability in Ground Engineering 1993- Edited by BO Skipp	752.40
Specification for Piling & Embedded Retaining Walls 1996	547.20

STRUCTURAL

Appraisal and Repair of Building Structures Introductory Guide 1992- R Holland, BE Montgomery-Smith, J F A Moore	389.00
Alkali Aggregate Reaction in Concrete Road & Bridges 1996 – Graham West	478.80
Bridge Modification: Stronger & Safer Bridges 1997: Proceedings from ICE Conference	478.80
Coated Metal Roofing and Cladding 1997 – British Board of Agrément	615.60
Fastenings to Concrete & Masonry Structures State of The Art Report -Comité Euro International du Béton	889.20
Prototype Building Structures: Analysis Design 1999- M Y H Bangash	2723.10
Safety of Bridges 1997 – Edited by Parag Das	615.60
Structural Dynamics for Engineers 1997 - Hans Anton Buchholdt	752.40

TRANSPORTATION

Acoustics of Long Spaces theory and design practice – Jian Kang 2002	732.95
Highway Maintenance Handbook 2 nd Edition 1997 – Edited by Ken Atkinson	957.60
Road Lighting for safety 1998 – Dr Ir DA Schreuder	583.70

NEC PUBLICATIONS

NEC 3 Complete set of 23 documents – all dated June 2005	3750.00
NEC3 Engineering & Construction Contract 2005	420.00
NEC3 Engineering & Construction Guidance Notes 2005	280.00
NEC3 Engineering & Construction Subcontract 2005	280.00
NEC3 Engineering & Construction Short Contract 2005	280.00
NEC3 Engineering & Construction Short Contract Guidance Notes 2005	280.00
NEC3 Professional Services Contract 2005	350.00
NEC3 Professional Services Contract Guidance Notes 2005	280.00
NEC3 Adjudicator's Contract 2005	210.00
NEC3 Adjudicator's Contract Guidance Notes 2005	210.00
NEC3 Term Services Contract 2005	350.00
NEC3 Term Services Contract Guidance Notes 2005	280.00
NEC3 Term Services Contract Flow Charts 2005	210.00
NEC3 Framework Contract 2005	140.00

NEC3 Framework Contract Guidance Notes 2005	140.00
NEC3 Procurement & Contract Strategies 2005	210.00
The Complete NEC Family of Contract Documents in a slip case 1995	2600.00
NEC Engineering & Construction Contract (ECC) "the Black Book" 1995	350.00
NEC Engineering & Construction Contract Guidance Notes "the Brown Book" 1995	220.00
NEC ECC Main Options A, B, C, DE and F as individual contracts (each)	300.00
NEC ECC Flow Charts 2nd Edition 1995	220.00
NEC The Engineering & Construction Subcontract (ECS) 2nd Edition 1995	300.00
NEC Engineering & Construction Short Contract (ECSC) (Paper Version) July 1999 First Edition	300.00
NEC Engineering & Construction Short Contract Guidance Notes July 1999 First Edition	260.00
NEC Engineering & Construction Short Sub Contract July 1999 First Edition	220.00
The NEC Professional Services Contract 2 nd Edition June 1998	350.00
The NEC Professional Services Contract 2 nd Edition June 1998 - Guidance Notes and Flow Charts for the Professional Service Contract-	260.00
The NEC Adjudicator's Contract, 2 nd Edition June 1998 (ADJ) – Adjudicator's Contract	220.00
The NEC Adjudicator's Contract, 2 nd Edition June 1998 (ADJ) – Adjudicators Guidance Notes and Flow Charts	130.00

WATER

Hydraulic gates and Valves in Free Surface flow and Submerged Outlets: Second Edition – Jack Lewin	916.20
Land Drainage & Flood Defence Responsibilities, 3 rd Edition 1996 – ICE	273.60

JOINT STRUCTURAL DIVISION PUBLICATIONS

Aims of Structural Design (2 nd Edition) – December 1987	Ref 4	90.00
Appraisal of Existing Structures (2 nd Edition) – October 1996	109	525.00
Aspects of Cladding – August 1995	106	430.00
Building for a Sustainable future: Construction without depletion – November 1999	321	360.00
Communications skills for Engineers and Scientist – 1996	298	100.00
Communications of Structural Design – April 1975	11	90.00
Design and Construction of Deep Basements including Cut-and-Cover Structures March 2004	419	1040.00
Design Recommendations for Multi-Storey and Underground car Parks 3 rd Edition – June 2002	343	700.00
Examinations 1990-2002	350	275.00
Examinations 1992-2003		275.00
Expert Evidence – A Guide for expert witnesses and their clients – November 1995	105	240.00
Expert Evidence – A Guide for expert witnesses and their clients – 2 nd Edition October 2003	416	550.00
Guidelines for the Use of Computers for engineering calculations – March 2002	340	420.00
Guide to Inspection of Underwater structures – October 2001	335	420.00
Guidance Note on the Security of the Outer Leaf of Large Concrete Panels of Sandwich Construction – April 1989	40	156.00
Guide to Good Management Practice for Engineering design offices – March 1991	153	320.00
Guide to Structural use of Lightweight Aggregate Concrete – October 1987	29	288.00
Guide to the Structural use of Adhesives – January 1999	310	360.00
Interim Guidance on the design of reinforced concrete structures using fibre composite reinforcement – August 1999	319	430.00

Introduction to the Fire Safety Engineering of Structures September 2003	413	510.00
Manual for the Design of Steelwork Building Structures – November 1989	36	240.00
Manual for the Design of Steelwork building Structures to EC3 – May 2000	324	360.00
Manual for the Design of Reinforced Concrete Building Structures – October 1985	76	180.00
Manual for the Design of Reinforced concrete building structures 2 nd Edition – July 2002	345	460.00
Manual for the design of plain masonry in building structures – July 1997	300	265.00
The Appointment of a Structural Engineer – A Guidance note for clients (Leaflet)	315	10.00
The Operation and Maintenance of Bridge Access, Gantries and Runways –July 1996	108	330.00
Problems with your house? Cracks? Subsidence? Heave? Get the right advice (Leaflet)	314	10.00
Recommendations for the Permissible Stress Design of Reinforced Concrete Building Structures - February 1991	63	290.00
Safety in tall buildings and other buildings with large occupance – July 2002	344	315.00
Stability of Buildings – December 1988	6	300.00
Standard Method of Detailing Structural concrete – August 1989	3	480.00
Structural Effects of Alkali-Silica Reaction – Technical Guidance of Appraisal of Existing Structures –July 1992	62	288.00
Structural Safety 1997-99: Review and recommendation – Twelfth Report of SCOSS – The Standing Committee on Structural Safety – February 1999	312	376.00
Structural Safety 2000-01 Thirteenth Report of SCOSS – The Standing Committee on Structural Safety – May 2001	334	265.00
Structural use of glass in buildings – December 1999	322	560.00
Subsidence of Low-Rise Buildings – August 2000 2 nd Edition	327	520.00
Temporary Demountable Structures- Guidance on procurement, design and use – October 1995	104	384.00
The Achievement of Structural Adequacy in Buildings- November 1990	14	240.00
The Structural Engineer's Response to Explosion Damage – November 1995	107	285.00

JSD STRUCTURAL - FIP BOOKS

Corrosion protection of prestressing steels – September 1996	300.00
Deflected tensile test – September 1996	180.00
Design and construction of prestressed ground anchorages - April 1996	200.00
Durability of concrete structures in North Sea - November 1996	300.00
Materials and systems for external prestressing - July 1996	100.00
Quality assurance of hollow core slab floors - July 1992	200.00