

**ELECTRONIC BLUEPRINT** is the principal point of reference and knowledge base for Architects, Engineers and Builders and the only package that fully integrates regulatory & standards requirements with comprehensive, editable specifications, CAD details and approved industry training.

## Distance Learning Protocol

Architects, Engineers and Builders are required to undertake on-going professional development by a number of methods including formal training. Electronic Blueprint offers a range of user-friendly, practical Workshops and Distant Learning Packages, tailored specifically for each profession.

Electronic Blueprint CD-ROMs contain Breeze style presentations with full text, diagrams and illustrations, and accompanying voice-over.

Distance learning allows the trainee to:

- » Listen and watch
- » Listen only
- » Watch only
- » Print the full presentation from the slides
- » Use the material in the privacy of their own office or home
- » Work at their own pace
- » Claim CPD points according to industry guidelines

This has proven to be a most versatile and flexible method of delivery.

Topics may range from introductory building industry material through to highly technical engineering content.

### Structured Distance Learning Program

Every two months, a coordinated Distance Learning Package consisting of several related topics will be offered. Each package will include an Electronic Update, which summarises the content, and several voiced-over presentations, as follows:

- Specification, detailing and problem solving for Architects
- Structural, civil and/or mechanical/electrical design for Engineers.
- Problems, solutions, and site control for Builders.

Participants will receive modules on disk, with assistance available by tutor via email. You will be required to complete a short assignment which will be marked and returned with a certificate for CPD accrual.

Summary of Structured Distance Learning Program	
Module 1	Site establishment & preliminaries
Module 2	Masonry
Module 3	Sustainability (Energy Efficiency) Windows, doors & glazing Insulation
Module 4	Earthworks & site drainage
Module 5	Retaining walls Fencing Landscaping
Module 6	Slip Resistance Floor & wall tiling Resilient floor coverings Carpets & soft furnishings
Module 7	Sustainability (Water Conservation) Drainage & plumbing Roof cladding Roof plumbing
Module 8	Paving Public kerbs, gutters, footpaths etc
Module 9	Sustainability (Air quality & toxicity) Painting & coatings Cleaning
Module 10	Concrete
Module 11	Loading Standards Structural steelwork Wall, roof & floor framing Carpentry, Joinery, Cladding & Floor Ceiling & wall lining
Module 12	Electrical installation Mechanical ventilation & services Kitchen Vehicular doors Window & door shutters Metalwork & balustrades
<p><b>Complimentary Packages</b></p> <p>Site establishment &amp; preliminaries - This demonstration module will be made available free-of-charge to Architects, Engineers or Builders interested in participating in the program.</p> <p>BCA – A module on the amendments to the BCA Volumes 1 &amp; 2 which are published 1st May each year will be made available free-of-charge with the May module of each year.</p>	

## Unstructured Distance Learning Packages

### Individual Modules

Modules from the Structured Program combine subjects that provide a complete learning package within an industry section.

### Individual Subjects

Several ancillary subjects are provided as individual 'subjects'. Modules and subjects are custom tailored for Architects, Engineers & Builders.

#### Modules

Module 1	Site establishment & preliminaries
Module 2	Masonry
Module 3	Sustainability (Energy Efficiency); Windows, doors & glazing; Insulation
Module 4	Earthworks & site drainage
Module 5	Retaining walls; Fencing; Landscaping
Module 6	Slip Resistance; Floor & wall tiling; Resilient floor coverings; Carpets & soft furnishings
Module 7	Sustainability (Water Conservation); Drainage & plumbing; Roof cladding; Roof plumbing
Module 8	Paving; Public kerbs, gutters, footpaths etc
Module 9	Sustainability (Air quality & toxicity); Painting & coatings; Cleaning
Module 10	Concrete
Module 11	Loading Standards; Structural steelwork; Wall, roof & floor framing; Carpentry, Joinery, Cladding & Floor; Ceiling & wall lining
Module 12	Electrical installation; Mechanical ventilation & services; Kitchen; Vehicular doors; Window & door shutters; Metalwork & balustrades

#### Individual Subjects

AS 1170.4 Earthquake loadings
Sustainability - Water Efficiency
Sustainability - Energy Efficiency
Sustainability - Air Quality & Toxicity
Anchorage
Salt Damp in Concrete & Masonry
Sustainability of Clay Brickwork
Thermal Performance of Masonry
Repair of Cracked Buildings
Fire Performance of Masonry
House Design to AS 3700
Issues in Measuring Slip Resistance

#### ELECTRONIC BLUEPRINT

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**Rod Johnston**

B Tech, M Eng Sc, MICD, CP Eng, NPER, MIE Aust, RPEQ  
Principal Author of the ELECTRONIC BLUEPRINT

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**Karen Bloomfield**

CEO of the ELECTRONIC BLUEPRINT

To move to the next slide, just hit the forward arrow or simply wait.

### About the Training Package

This training package is part of the Electronic Blueprint Distance Learning program. It enables participants to acquire on-going training and professional knowledge of the building industry by distance learning techniques.

### To Navigate the Training Package

To navigate, use the “arrow down” and “arrow up” keys to move forward or back through the presentation.

### More Help

To contact your tutor click on the address below, write the email and send. Your tutor will respond within 48 hours. [info@electronicblueprint.com.au](mailto:info@electronicblueprint.com.au)

### Assignment

On completion of the presentation, you may complete an assignment and email it to the tutor at the address below. The purpose of the assignment is to provide focus for the presentation, and to enable you to apply the information to practical situations. The tutor will assess it, provide comments and forward a certificate by return email. [info@electronicblueprint.com.au](mailto:info@electronicblueprint.com.au)

### Important Note

If you wish to take advantage of the interactive facilities of this training module, you must now connect to the Internet and click here [www.electronicblueprint.com.au](http://www.electronicblueprint.com.au)

## Preparation of the Training Package

This training package was prepared by Rod Johnston, a qualified structural/civil engineer and builder, with over 35 years experience in design, construction, research and development of steel, concrete, masonry and timber structures in Australia and overseas.

Rod is the Managing Director of Quasar Management Services Pty Ltd, a consulting company specialising in design and problem solving and editor of the Electronic Blueprint.

His experience encompasses work on many Australian Standards, including:  
AS1170 & AS 4055 (loading standards), AS 2870 (residential concrete slabs & footings), AS 3700, AS 4773, AS/NZS 4455, AS/NZS 4456, AS 2701, AS 2699, AS 2904 (masonry and its components), AS 3727 (residential pavements), AS/NZS 4586 & 4663 (slip resistance), AS 4678 (retaining walls) and AS 4859 & AS 2627.1 (insulation & thermal performance).

He is currently the Chairman of Standards Australia Committees BD/26 for manufacturing and testing masonry units and pavers and BD/97 for masonry in housing.

Rod has a Bachelor of Technology, Master of Engineering Science, Master of International and Community Development, and is a Member Institution of Engineers and a Chartered Professional Engineer.

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# Distance Learning Packages

## CPD Points Calculation Formula

The following table provides the basis for calculating the CPD points associated with the Electronic Blueprint Distance Learning Packages.

Points per hour	1.0	1.0	1.0
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Level of Complexity    Advanced    Moderate    Basic

### Functions associated with using the Distance Learning Package

Set up	10%	10%	10%
Run	100%	100%	100%
Reflect	50%	40%	20%
Q&A	50%	30%	15%
Research	50%	30%	15%
Assignment	200%	150%	100%
<u>Close down</u>	<u>10%</u>	<u>10%</u>	<u>10%</u>
Total	470%	370%	270%

### Various Combinations

Run Time	30	30	30	minutes
Points	2	2	1	points
Run Time	40	40	40	minutes
Points	3	2	2	points
Run Time	50	50	50	minutes
Points	4	3	2	points
Run Time	60	60	60	minutes
Points	5	4	3	points
Run Time	70	70	70	minutes
Points	5	4	3	points
Run Time	80	80	80	minutes
Points	6	5	4	points
Run Time	90	90	90	minutes
Points	7	6	4	points
Run Time	100	100	100	minutes
Points	8	6	5	points
Run Time	110	110	110	minutes
Points	9	7	5	points
Run Time	120	120	120	minutes
Points	9	7	5	points