

# *Official Notices*

February 1998 — Vol 7 No 1

## **IMPORTANT**

The information below is the Board's official advice to schools of the decisions it has taken, and should be acted upon as such. Please ensure the *Official Notices* are circulated to all teaching staff.

### **Topics covered by Official Notices in this issue**



#### **HSC Examinations**

1998 HSC Examinations — Changes to the layout of the

Visual Arts 2/3 Unit Plates Booklet .....BOS 1/98

Approved Scientific Calculators — Higher School Certificate Examinations 1998 ....BOS 2/98

Chinese Examinations — 2/3 Unit and 3 Unit Chinese

(non-Background Speakers) .....BOS 3/98



#### **Creative Arts**

1998 HSC Examinations — Changes to the layout of the

Visual Arts 2/3 Unit Plates Booklet (see BOS 1/98)



#### **Languages Other Than English**

Chinese Examinations — 2/3 Unit and 3 Unit Chinese

(non-Background Speakers) (see BOS 3/98)



#### **Technological and Applied Studies**

Revised Industrial Technology 2 Unit Syllabus.....BOS 4/98



**1998 HSC Examinations** **BOS**  
**— Changes to the** **1/98**  
**layout of the 2/3 Unit**  
**Visual Arts Plates Booklet**

The layout of the Plates Booklet that accompanies the 2/3 Unit (Common) examination paper in Visual Arts is to change for the 1998 HSC examination and thereafter. The Plates Booklet will no longer be a six-page fold-out booklet. Rather, it will be saddle stitched and side stapled to the question paper as is the Plates Booklet for the 3 Unit examination paper. The layout of the plates will not alter in any other respect. A specimen copy of the layout for the 2/3 Unit Visual Arts Plates Booklet will be dispatched to schools in Term 1, 1998. Copyright law precludes this specimen copy containing actual reproductions of artworks.

**Effective:** 1998 HSC Examination  
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**Jo-Anne Bains-Finn**  
**Senior Assessment Officer**



**Approved Scientific Calculators** **BOS**  
**— Higher School Certificate** **2/98**  
**Examinations 1998**

The Board advises that the list of scientific calculators approved for use in the 1998 Higher School Certificate examination has been significantly reduced following a decision to remove all calculators approved prior to 1991 and to review the criteria used in the approval process and their application.

The shorter list of approved calculators will greatly facilitate the task of Presiding Officers in ensuring the proper and equitable use of scientific calculators in those examinations which permit the use of such calculators.

The calculators removed from the approved list through this review are as follows:

ABACUS AC105, S87, S88

ADLER LS826

APF 8602, 8603

BROTHER 738SR

CANON F58, F65, F73, F85, F400, F401, F600, F601, F800, FS51, FS400, FS600

CASIO fx-39, fx-68, fx-78, fx-80, fx-82, fx-82A, fx-82B, fx-82C, fx-82D, fx-85, fx-85M, fx-85N, fx-90, fx-98B, fx-100, fx-100A, fx-100B, fx-100C, fx-107, fx-115, fx-115M, fx-115N, fx-120, fx-135, fx-250, fx-310, fx-350, fx-350A, fx-350C, fx-370, fx-411, fx-450, fx-451, fx-451M, fx-510, fx-550, fx-550S, fx-570, fx-570A, fx-570C, fx-580, fx-911, fx-911M, fx-915, fx-950, fx-961, fx-961M, fx-990, fx-991, fx-991M, fx-991N, fx-7100, fx-8000, fx-D400

COMPEX LC1002S  
 COMPUTEC LC57S, LC506P  
 FOCAL SSR87, SSR97  
 HANIMEX ESR210, HSC87, LC780, LC879, SR878, SR879, STU1042  
 HEWLETT-PACKARD HP32E  
 PHILIPS SBC1704  
 RADIO SHACK EC499, EC4006, EC4009, LCD  
 SANYO CZ252, CZ1201, CZ1220, CZ1241  
 SHARP EL-506H, EL-506P, EL-508A, EL-509A, EL-509S, EL-514, EL-520, EL-524, EL-530A, EL-531, EL-531A, EL-532, EL-545, EL-553, EL-556, EL-586  
 TANDY EC4009, EC4010, EC4013, EC4014, EC4015, EC4017, EC4018, EC4031, EC4035  
 TEXAS TI-34, TI-35, TI-36, TI-37  
 TOSHIBA SLC8310, SLC8410.

The scientific calculators listed on page 3 are the only models currently approved for use in the Higher School Certificate examinations in 1998.

Schools may apply for the re-approval of any calculator deleted, and for the addition of other calculators to the list, provided that such requests are received by 3 July 1998.

**Requests received after this date will not be considered for the current year.**

Any request must be accompanied by:

- the manufacturer's specifications or a copy of the same; or
- a clear photocopy of the keyboard of the calculator, showing the brand and model number.

The list of approved calculators, including any calculators added to the list, is available at the Board's Internet address (<http://www.boardofstudies.nsw.edu.au>). A final list will be published in the Presiding Officer's Handbook, issued to Presiding Officers for the Higher School Certificate examinations.

**Features of approved calculators**

The Board will only approve calculators that meet the following criteria:

In addition to the features of a basic (four operation) calculator, a scientific calculator may include some or all of the following:

- fraction keys (for fraction arithmetic)
- percentage key (%)
- square root key ( $\sqrt{\quad}$ )
- $\pi$  key
- memory access keys
- an EXP key and a sign change (+/-) key
- square ( $x^2$ ) and square root ( $\sqrt{\quad}$ ) keys
- logarithm and exponential keys (base 10 and base  $e$ )
- a power key ( $a^x$ ,  $x^y$  or similar)

- trigonometrical function keys with an INVERSE key for the inverse functions (ie sin, cos, tan, INV)
- a capacity to work in both degree and radian mode
- reciprocal key ( $1/x$ )
- permutation or combination key ( ${}^n P_r$ ,  ${}^n C_r$ )
- cube or cube root keys
- parentheses keys, etc
- statistical operations such as mean and standard deviation
- metric or currency conversion.

**Features that are not permitted**

Calculators with the following features will not be approved:

- programmable (any calculator that can have a sequence of operations stored and then executed automatically is considered programmable and hence not allowed)
- capable of storing alphanumeric data input by a user (this does not exclude calculators with memories that are used to store intermediate numerical results obtained during calculations and required later)
- capable of storing, manipulating or graphing functions entered in symbolic form (this includes calculators with a graphic display capacity)
- capable of performing 'hard-wired' numerical routines for operations such as differentiation, definite integration, and the solution of equations
- capable of performing 'hard-wired' symbolic manipulations such as addition of algebraic expressions, binomial expansion, symbolic differentiation.

**General requirements**

- All calculators must meet the following criteria:
  - battery or solar powered
  - hand-held
  - silent (except in approved cases for blind candidates).
- Calculators that allow modules to be plugged in are permitted only if they meet all the above requirements, and all plug-in modules are removed.
- These requirements apply also to any ruler, pen, watch or other item with a built-in calculator function.

**Effective:** Immediately  
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**SCIENTIFIC CALCULATORS APPROVED  
 FOR USE IN THE BOARD'S HIGHER SCHOOL  
 CERTIFICATE EXAMINATIONS 1998**

CANON	F402
CANON	F602
CANON	FS402
CASIO	fx-7
CASIO	fx-19
CASIO	fx-82L
CASIO	fx-82LB
CASIO	fx-82SX
CASIO	fx-82 NASER
CASIO	fx-82 SUPER
CASIO	fx-85S
CASIO	fx-85SA
CASIO	fx-85V
CASIO	fx-85VH
CASIO	fx-100D
CASIO	fx-100S
CASIO	fx-100V
CASIO	fx-115D
CASIO	fx-115S
CASIO	fx-115V
CASIO	fx-140
CASIO	fx-250HS
CASIO	fx-300V
CASIO	fx-350D
CASIO	fx-350H
CASIO	fx-350HA
CASIO	fx-570AD
CASIO	fx-570AV
CASIO	fx-570CD
CASIO	fx-570CV
CASIO	fx-570S
CASIO	fx-911S
CASIO	fx-991D
CASIO	fx-991H
CASIO	fx-991S
CASIO	fx-991V
CASIO	fx-992S
CASIO	fx-992V
CASIO	fx-992VB
CITIZEN	SR70
GAF	S81
HENNING DYNE.	HD9000
MICRONTA	EC-4039
MICRONTA	EC-4041
SHARP	EL-506
SHARP	EL-509G
SHARP	EL-520G
SHARP	EL-520L
SHARP	EL-531GH
SHARP	EL-531LH
SHARP	EL-531H
SHARP	EL-531P
SMART	2
TANDY	EC4032
TEXAS	SC10 Collegiate
TEXAS	TI-30 SLR+
TEXAS	TI-30 STAT
TEXAS	TI-30X
TEXAS	TI-36X
TRULY	107



**Chinese Examinations — BOS  
2/3 Unit and 3 Unit  
Chinese (non-Background  
Speakers) 3/98**

The Board advises that the use of dictionaries is not permitted in the Listening and Speaking components of these examinations. The use of print Chinese–English, English–Chinese dictionaries is permitted in the written examinations of these courses as indicated in the syllabus and the examination specifications (*LOTE KLA Handbook*, page 38).

**Effective:** 1998 HSC Examination  
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**Revised Industrial Technology  
2 Unit Syllabus BOS  
4/98**

The revised *Industrial Technology 2 Unit Syllabus* was approved by the Minister for Education and Training in December 1997 for implementation in Year 11, 1998. The revised syllabus will be examined for the first time at the 1999 HSC.

Syllabuses were dispatched to reach schools early in Term 1, 1998, followed by revised KLA Handbook information and specimen examination papers. A copy of the syllabus has also been placed on the Board's website.

Further information regarding the implementation of the revised syllabus is set out below.

**Categorisation**

As notified in Official Notice BOS 55/96 (June 1996, Vol 5 No 4), the reintroduced 2 Unit Industrial Technology course was given interim Category B status effective from the 1997 HSC.

The Committee of Chairs of Academic Boards/Senates of Universities in NSW and the ACT has advised the Board that the revised 2 Unit Industrial Technology Syllabus has been determined as Category B for the purpose of the calculation of the Universities Admissions Index (UAI), formerly the Tertiary Entrance Rank (TER).

**Exclusions**

Exclusions will apply in relation to Industrial Technology and:

- Design and Technology;
- Industry Studies (Metal and Engineering);
- three Content Endorsed Courses; and
- some JSSTAFE courses.

Students undertaking 2 Unit Industrial Technology may not undertake 2/3 Unit Design and Technology because the aims, objectives and outcomes of Industrial Technology have significant overlap with those of Design and Technology.

The syllabus has been revised to align focus areas with recognised industry training pathways. Consequently, students are not permitted to study Industrial Technology focus areas that are related to vocational Board Developed and Content Endorsed Courses.

Students undertaking:

- 2 Unit Industrial Technology (Metal and Engineering Industries Focus Area) may not undertake 2 Unit Industry Studies (Metal and Engineering).
- 2 Unit Industrial Technology (Furniture and Timber Products Industries Focus Area) may not undertake Furnishing CEC.
- 2 Unit Industrial Technology (Building and Construction Industries Focus Area) may not undertake Building and Construction CEC.
- 2 Unit Industrial Technology (Electronics Industries Focus Area) may not undertake Electronics CEC.
- 2 Unit Industrial Technology may not undertake Joint Secondary Schools TAFE (JSSTAFE) courses as listed in Official Notice BOS 50/97, Sept 1997, Vol 6 No 8.

**Industry Recognition Guidelines**

The revised syllabus has been designed to maximise opportunities for recognition of student learning by TAFE and other providers.

A support document, *Industrial Technology – Industry Recognition Guidelines*, will be developed to provide the details of competency standards linked to each focus area. The guidelines will also describe the process to be followed by students who seek industry recognition for work undertaken in Industrial Technology. It is anticipated that this document will be available to schools during Term 4, 1998.

Students who wish to maximise the potential for recognition of their study in a particular industry will need to ensure that the skills developed through their project work align with relevant competency standards.

**Effective:** Year 11, 1998  
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