



**Senior Certificate Course in Sugarcane Agriculture**

**APPLICATION FORM**

**6 February – 9 March 2012**

FIRST NAMES (please print) .....

SURNAME ..... MR/MRS/MISS .....

ADDRESS .....

..... POSTAL CODE .....

I.D. NO ..... TELEPHONE (Code) ..... (No.) .....

..... CELL .....

E-mail ..... FAX (Code) ..... (No.) .....

QUALIFICATIONS (minimum Grade 12)/EXPERIENCE (attach copies of certificates) .....

.....

NAME OF EMPLOYER (if applicable) .....

CONTACT PERSON .....

ADDRESS OF EMPLOYER .....

..... POSTAL CODE .....

EMPLOYER'S TELEPHONE (Code) ..... (No.) .....

E-mail ..... FAX (Code) ..... (No.) .....

GROWER CODE ..... ORDER NUMBER.....

VAT NUMBER (South African applicants only): .....

DATE: ..... SIGNED: .....

**IMPORTANT: GENERAL INFORMATION**

1. Closing date for applications is **1 November 2011**.
2. Limited seats are available, and all applicants will be notified of their acceptance.
3. Only once an acceptance letter has been issued to successful applicants should **FULL PAYMENT** of course fees be made in advance. Students who have not paid in advance will not be allowed to attend the course. Closing date for payment is **4 January 2012**.
4. Students are responsible for making their own arrangements for accommodation, transport and meals.
5. Completed applications and accompanying documents must be returned to:

Course Administrator,  
South African Sugarcane Research Institute,  
Private Bag X02, Mount Edgecombe, 4300 RSA

Tel: +27(0)31 508 7400  
Fax: +27(0)31 508 7597  
E-mail: educane@sugar.org.za

Course Fee: SOUTH AFRICANS  
South African Sugar Industry applicants:  
All other applicants within SA:  
APPLICANTS OUTSIDE SOUTH AFRICA

R7370.00 + Vat = R8401.80  
R8480.00 + Vat = R9667.20  
R8480.00 NO VAT REQUIRED

Please indicate your method of payment:

- Cheque  
 Direct Deposit

Banking Details:  
Payment to: SASRI  
Standard Bank, Durban North  
Branch Code: 04 28 26  
Account Number: 051 406 489



**SOUTH AFRICAN SUGAR ASSOCIATION**  
SUGARCANE RESEARCH INSTITUTE



## SENIOR CERTIFICATE COURSE IN SUGARCANE AGRICULTURE

### GENERAL INFORMATION FOR STUDENTS

The Senior Certificate Course is held in the Education Centre, Kwa-Shukela Building of the South African Sugar Association (SASA), Mount Edgecombe. The course is administered by the Knowledge Management Unit of SASRI and is of five weeks duration. It is held once or twice each year, usually in February and June, **NUMBERS PERMITTING**.

#### Entry Requirements

**The minimum entry requirement is some tertiary education.** Students who wish to enroll for the course and who have passed Std 10 (Grade 12) may be allowed access, following an assessment and interview. **A student who has a matric (Grade 12) and has passed the Junior Certificate course with a Merit Pass (65% and above) will be entitled to enroll for the Senior Certificate course.**

**Since the course is delivered in English and all assessment is carried out in English, students must be able to read and write English.**

#### Course Structure

The duration of the course is five weeks and comprises both lectures and practicals. Each day commences at 08:00 and finishes at approximately 15:30. Guest lectures covering a variety of topics of special interest, are also given.

#### Course Content

All components of the course are compulsory and include:

1. **Soils**
  - Formation and development
  - Soil health
  - Classification and identification
  - Soil physics
  - Soil and water salinity and sodicity
  - Soil nutrients in sugarcane production
  - Fertilizers
  - Green Manure
  - Management of Soils
  
2. **Varieties**
  - History
  - Breeding
  - Botany: structure, propagation and physiology of cane plants
  - Agronomic characteristics
  - Identification of varieties
  - Choice of varieties

- |                                    |   |
|------------------------------------|---|
| <b>3. Diseases and Pests</b>       | Sugarcane diseases<br>Seedcane production<br>Insect pests<br>Principles of pest control<br>Nematodes and their control<br>Biosecurity |
| <b>4. Husbandry</b>                | Land preparation<br>Planting<br>Ratoon management<br>Field drainage   |
| <b>5. Environmental management</b> |   |
| <b>6. Land use planning</b>        |   |
| <b>7. Harvesting</b>               | Chemical ripening of sugarcane<br>Cane quality<br>Cane payments<br>Estimating and manual cutting                                      |
| <b>6. Weed control</b>             | Biology and control<br>Herbicides and their application   |
| <b>7. Irrigation</b>               | Principles<br>Systems<br>Control<br>Design  |
| <b>8. Mechanization</b>            | Principles<br>Tractor performance and power transmission<br>Costing and planning<br>Application of chemicals (including calibration)  |
| <b>9. Management</b>               | Farm management<br>Financial management<br>People management  |

### **Course Assessment**

Tests are written after completion of each subject. Duration of tests is approximately two hours. Certificates are awarded in three classes namely:

- |            |               |
|------------|---------------|
| 1. Honours | 80% and above |
| 2. Merit   | 65 – 79 %     |
| 3. Pass    | 50 – 64%      |

Students who fail more than three subjects or achieve an aggregate below 50% will fail the Senior Certificate course.

### **Administration Matters**

- 1. Timetable:** Lectures begin at 08:00. There are 10 minutes intervals between lectures and a mid-morning tea break of 20 minutes. Tea and coffee is provided. Lunch is from 13:00-13:30.

2. **Accommodation and transport:** Students must arrange their own accommodation. Many students stay at the Shukela Training Centre (STC: +27(31) - 508 7700. SASRI offers no accommodation.

**Students must arrange their own transport from their point of arrival in South Africa to their place of accommodation.** Neither SASRI nor the STC provide a shuttle service. SASRI does offer a daily shuttle service between STC residences & the course venue.

3. **Catering:** Canteen facilities are available for light lunches, snacks and cold drinks.

4. **Costs:** The cost of the Senior Certificate course for:

- South African Sugar Industry applicants is R7370.00 + Vat = R8401.80 (includes files, notes and stationery). Students must supply their own paper, pens, pencils, rulers, erasers, sharpeners and calculators.
- All other SA applicants is R8480.00 + Vat = R9667.20 (includes files, notes and stationery). Students must supply their own paper, pens, pencils, rulers, erasers, sharpeners and calculators.
- Applicants from outside South Africa do NOT pay VAT on the fees. (R8480.00) Students must supply their own paper, pens, pencils, rulers, erasers, sharpeners and calculators.

**Conditions: Upon acceptance, full payment of course fees must be made in advance. Students who have not paid in advance will not be allowed to attend the course.**