

1925

E. AFRICA  
TANGANYIKA

C O  
50416

DATE

15<sup>th</sup> October

REL. 9 NOV 25

Governor  
Cameroon

Conf  
2

CIRCULATION

Survey Staff

363

States that revised conditions of service came into force with effect from 1st January 1925; and transmits copy of syllabus of subjects for examination which applicants will be required to pass before being employed beyond efficiency bar at £500

has been written  
Replies that in 4594 Uganda  
cases have...

1) The syllabus is the same as that in 2/11/24/3643, but I.T. has made a mistake about the spelling of the diameter

2) I see that the harmonised staff numbers has been reduced of only 5000, a balance of no value will be for a while

L.C. Stevenson  
15/11

Recd. with Col. Lach's reply  
(Approval of mess. H. makes me feel happy that I am not a Tanganyika or Uganda Surveyor)

Subsequent Paper

SAC  
burs  
1/11/25

See memo 9044594/2529  
Eva Dept. address  
1/11/25

Hand copy 17 DEC 25  
copy ends to be typed copy of MAR 1925

TANGANYIKA TERRITORY.

CONFIDENTIAL (2)



RECEIVED  
9 NOV 1925

F0416  
GOVERNMENT HOUSE,  
DAR ES SALAAM.  
October, 1925.

364

Sir,

With reference to your Confidential despatch of the 5th February regarding the conditions of service of members of the Survey Staff in this Territory, I have the honour to inform you that in agreement with the Government of Uganda the revised conditions set forth in the enclosure to your despatch under reference came into force with effect from the 1st January, 1925.

2. The question of the number of pensionable District posts in the grades of Surveyor and Staff Surveyor formed the subject of my Confidential despatch of the 29th July to which a reply is awaited.

3. I take this opportunity to transmit for your information the accompanying copy of the syllabus of subjects for the examination which surveyors will be required to pass before proceeding beyond the efficiency bar at £500, to which the Government of Uganda agrees.

I have the honour to be,

Sir,

Your most obedient, humble servant,



G O V E R N O R .

RIGHT HONOURABLE

L.C.M.S. AMERY, P.C., M.P.,

&c., &c., &c.,

DOWLING STREET,

S.W.

Memorandum to Dispatch Conf  
of 15 October, 1928

Syllabus of subjects for the examination which  
surveyors will be required to pass before  
proceeding beyond the efficiency bar at  
£500.

365

The papers will cover the following subjects:-

(a) Rigorous Theodolite Traversing.

Description of Field Methods.  
Limit of Error.  
Adjustment of Misclosures, Angular and Linear.  
Correction for Sag, Temperature and Curvature.  
Methods of Control.  
Reduction to Sea Level.

(b) Triangulation and Plane Trigonometry.

Limit of Error permissible in different classes  
of work.  
Investigation of causes of error in measurement of  
an angle and means to be adopted to eliminate  
or reduce it.  
Solution of triangles.  
Balance of figures where alternative fixations are  
possible as in interlaced quadrilateral or  
central Polygon.  
Conditions required to balance a figure.  
Reduction of eccentric observations and correction  
for displaced signal.  
Problems in plane trigonometry arising in field work.  
Ascertainments of heights by single and double  
observations.  
Setting out road crossings and site walls.  
Computation of areas, Subdivisions of plots.  
Computation of position and bearing and reduction  
of observations to a more convenient position.

(c) Leveling.

To plot plan route for road, railway or canal from  
field notes.  
To plot longitudinal section from level notes.  
To plot cross sections on curve.  
To design a final trace and profile from a  
longitudinal section with a specified  
gradient.  
To compute earthwork involved in a proposed  
field methods for rigorous leveling.  
Investigation of error and methods to be adopted to  
eliminate.

(d) Surveying Instruments and their Application.

(Theodolite, level, plane table, clinometer,  
clinometer, planimeter, box level, pantograph).

- (e) Railway curves, and problems arising therefrom.

Method of setting out with chain only, or with theodolite.  
Simple and compound curves only.

- (f) Elements of astronomy and spherical trigonometry.

Bearing on surveying, including solution of spherical triangle to ascertain solar or stellar azimuth, latitude or time.  
Convergence of meridians.

- (g) hydrographic surveys, including soundings in tidal waters, their reduction to datum, the method of plotting or computing their position. Measurement of river discharges.  
Current observations.

- (h) The principles of siting and planning of Townships.  
Township surveys.

- (i) The preparation of Estate Plans.  
Township Plans.  
Plane Table Survey Plans.