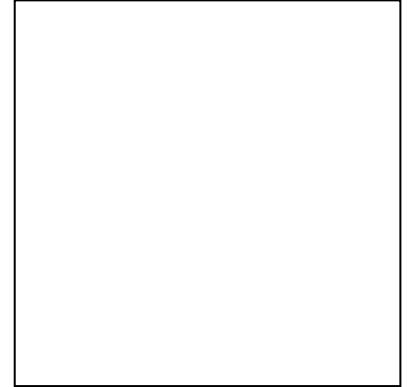




# Application for Accredited Lighting Practitioner

Revision: September 2020

Insert for Photograph of Applicant



PLEASE PRINT CLEARLY

## Section A: Applicant's Details

### Applicant's Details

<b>Full Names &amp; Surname:</b>			
<b>Title</b>			
<b>IESSA Member Code:</b>		<b>Identity Number:</b>	
<b>Company where Employed:</b>			
<b>Designation:</b>			
<b>Mobile Number:</b>		<b>Telephone Number:</b>	
<b>Facsimile:</b>		<b>E-mail Address:</b>	
<b>Postal Address:</b>			<b>Code:</b>
<b>City/Province:</b>			
<b>(If International, please indicate the Country and the closest Main City Centre)</b>			

## Section B: Invoicing Details

### Person Responsible for Payment

<b>Full Name:</b>			
<b>IESSA Member Code:</b>		<b>VAT Number:</b> (If applicable)	
<b>Mobile Number:</b>		<b>Telephone Number:</b>	
<b>Facsimile:</b>		<b>E-mail Address:</b>	
<b>Postal Address:</b>			<b>Code:</b>



**Section C: Practitioner Specialisation**

(Applicant is to select from the list below to indicate field of expertise application for application)

Practitioner Specialisation			Yes / No
a)	Interior Lighting Design		
b)	Exterior Lighting Design		
c)	Street Lighting Design		
d)	Lecturing		
e)	Specialist (i.e. Photometry, Control gear, Test Measurement)		
	Specify:		

**Section D: Training**

(List ALP Prescribed Lighting Courses Attended. Alternative training courses, modules, tertiary education are also to be listed. Please attach copies of all certification)

Date:	Course Description



## Section E: Working Experience

(Applicant to submit a copy of their CV. Applicant to list work experience obtained, projects, conferences and workshops attended. All projects listed to be signed and verified by the applicant's manager confirming that it is applicant's own work, project. Additional pages may be submitted if required by applicant).

Date:	Working experience, projects, other	Manager's Signature

## Section F: Application Assignment

(The Applicant is urged to check and ensure that all supporting documentation is submitted with this application and assignment)

The applicant's application for registration as an **Accredited Lighting Practitioner**, irrespective of practitioner specialisation, shall be accompanied by a completed assignment, which aims to assess the applicant's lighting and illumination engineering experience, ability and competency, all of which should meet IESSA's minimum prescribed competency requirements.

Failure to submit or fulfil the requirements of the assignment shall result in the applicant's application submission being forfeited.

The applicant is required to submit a signed affidavit to the effect that the information and assignment provided is true and correct and that the assignment is the applicant's own work and not that of others or assisted by others.

The assignment seeks to assess the applicant's ability and competency in lighting and illumination engineering. To complete the assignment, the applicant shall be required to compose and provide a report and lighting designs for the specific areas (Parts) indicated on the site layout drawing found under ANNEXURE B: ASSIGNMENT SITE LAYOUT DRAWING. The report and lighting designs for these Parts shall assess compliance in:

- 1) Part 1: Interior Lighting;
- 2) Part 2: Exterior lighting;
- 3) Part 3: Street Lighting;
- 4) Part 4: Retail Lighting;
- 5) Part 5: Emergency Lighting; and
- 6) Other considerations relating to illumination and lighting.

The applicant shall be required to make use of the RELUX lighting simulation software to compose a lighting design and detailed lighting design simulation report for each Part indicated on the site layout drawing. The applicant shall detail each lighting design on a design layout drawing.

The report shall detail the design methodology, feasibility and compliance of the lighting design for each Part indicated on the site layout drawing. Here are some elements that the applicant is recommended to consider when drafting their report:

- 1) What are the design criteria, limitations, environment, locality and assumptions that should be stated?
- 2) What operations or tasks are being conducted?
- 3) Why are certain luminaires being selected from the applicant's luminaire library?
  - a. Consideration for quality assurance
  - b. Luminaire characteristics and specifications
  - c. Luminaire photometry and performance
- 4) What restrictions or standards apply?
- 5) It is required that the applicant be able to evaluate, understand, interpret and explain the results of the detailed lighting design simulation report.
- 6) What consideration is there for energy efficiency and control systems?
  - a. Support these considerations with comparative models.
- 7) What are the financial and life cycle implications of the lighting design?
- 8) How is all this design information to be verified on site once implemented and commissioned? Explain.
- 9) Are there any interesting elements about the proposed lighting design?

Additional information is provided for each Part of the assignment:

- 1) Part 1: Interior Lighting;
  - i. Provide an interior lighting design of the entire building indicated by Part 1.
  - ii. All areas and rooms in the building are to be designed for.
  - iii. Business hours: Monday to Friday, 07:00 to 19:00.
  - iv. There are 240 employees working within the building.
  - v. General office work, draughting, repairs, workshop and inspection works occur within these premises.
  - vi. Separately provide a lighting control system on the interior lighting design.
    - i. Indicate the financial feasibility of implementing such a control system.
  
- 2) Part 2: Exterior lighting;
  - i. Provide an exterior lighting design of the entire exterior area indicated within Part 2.
  - ii. The exterior lighting shall involve:
    - i. Security lighting;
    - ii. Perimeter lighting;
    - iii. Area lighting; and
    - iv. Lighting for recreational activities.
  - iii. The site is located in an area with moderate crime.
  - iv. Security lighting to be adequate to provide detailed facial recognition at entrances and sufficient lighting levels for camera surveillance of the perimeter.
  
- 3) Part 3: Street Lighting;
  - i. Provide a street lighting design along First Street with asphalt roadway indicated within Part 3.
  - ii. The maximum speed limit along First Street and Main Drive is 80 km/hr along the roadway.
  - iii. Secondary roads have a speed limit of 60 km/hr.
  - iv. Peak traffic volumes along First Street:
    - i. At 06:30
      1. 294 vehicles per hour in the eastern direction.
      2. 138 vehicles per hour in the western direction.
    - ii. At 13:00
      1. 743 vehicles per hour in the eastern direction.
      2. 316 vehicles per hour in the western direction.
    - iii. At 19:00
      1. 208 vehicles per hour in the eastern direction.
      2. 241 vehicles per hour in the western direction.
  - v. Traffic volume expected to increase by 5% every year as the local area develops, with the expectation of the road being upgraded and widened after 20 years.
  - vi. The existing lighting along Main Drive was installed ten (10) years ago and consists of the following standard municipal material:
    - i. 10m mounting height pole, capable of carrying a maximum load of 20kg.
    - ii. Spigot of 125mm length and 43mm diameter, raked at 10 degrees
    - iii. Use of a 150W HPS/T lamp and luminaire
  - vii. Lighting along Main Drive was done only in compliance to SANS 10098-1 road lighting category A2, 200 veh/hr/lane with a median.
  - viii. Pedestrians, including visually impaired pedestrians, and cyclists make use of the sidewalks along First Street which require a high level of at least 60% uniformity to visually navigate the sidewalks safely.

- 4) Part 4: Retail Lighting;
  - i. Provide a retail lighting design of the retail store indicated by Part 4.
  - ii. The retail store sells books, magazines and is also a café and bakery.
  - iii. The store entails:
    - i. Cashier, café and bakery counter facilities;
    - ii. Shelved walling for books and magazines;
    - iii. Instore display of baked goods;
    - iv. Shopfront showcasing baked goods; and
    - v. Rest / social / work areas.
  
- 5) Part 5: Emergency Lighting
  - i. Provide an emergency lighting design of the entire building indicated by Part 5.
  - ii. Various forms of emergency power are allowable to power the luminaires.
    - i. However, the design option and reasoning of choice is to be explicitly detailed.
  - iii. There are 240 employees working within the building.
  - iv. A fire detection system is present.

When drafting the assignment, the applicant is to:

- 1) Write in the first person.
- 2) Appropriate headings and sections are to be provided and adequately referenced.
- 3) Describe the works. Do not list processes or steps but explain the methodology and workings to how the results are obtained and deemed acceptable.
- 4) Include sketches and flow diagrams where necessary into the report.
- 5) Append to the submission all supporting documentation. Each document is to be signed and shall indicate to which part of the assignment it refers. Thus, it is in the best interest of the applicant and the applicant's own responsibility to ensure that all documentation is submitted. IESSA shall not be held responsible based on documentation being omitted.

**The total assignment should not exceed twenty-five (25) pages (10 font, single line spacing) and this excludes required and supporting documentation and drawings.**

**The evaluation of the assignment shall conform to the criteria stipulated under *ANNEXURE A: CRITERIA FOR APPLICATION AND ASSIGNMENT EVALUATION*.**

## Section G: Application Submission Check Sheet

(Applicant to check and ensure that all supporting documentation listed below is submitted with this application)

Application Submission Check Sheet		
Item	Description	Yes / No
<b>Section A: Applicant's Details</b>		
1	Certified copy of ID / Passport	
2	Copy of IESSA membership Certificate	
<b>Section B: Invoicing Details</b>		
<b>Section C: Practitioner Specialisation</b>		
<b>Section D: Training</b>		
3	Module 1: Lighting Concepts, Vision, Lamps and Colour	
4	Module 2: Interior Lighting	
5	Module 3: Exterior Lighting	
6	Module 4: Quality Assurance - Public Framework	
7	Module 5: Photometry	
8	Module 6: Lighting for Energy Efficiency in Industry	
9	Module 7: Lighting for Roads & Precincts	
10	Module 8: RELUX Lighting Design	
11	Module 9: Retail & Shop Lighting	
12	Module 10: Advanced LED Technology	
13	Other (Specify):	
<b>Section E: Working Experience</b>		
14	Copy of CV	
15	Confirmation of attending Conferences, if applicable	
16	Confirmation of attending Workshops, if applicable	
<b>Section F: Application Assignment</b>		
17	Part 1: Interior Lighting	
18	Part 2: Exterior Lighting	
19	Part 3: Street Lighting	
20	Part 4: Retail Lighting	
21	Part 5: Emergency Lighting	
22	Assignment Report	
23	All supporting documentation submitted	
24	Certified and Signed Affidavit	
<b>Section G: Application Submission Check Sheet</b>		
<b>Section H: Declaration &amp; Undertaking</b>		
<b>Application for Accredited Lighting Practitioner</b>		
25	Application fully completed and signed	
26	2 x ID type photographs submitted (or electronic copy)	



## Section H: Declaration & Undertaking

I, the undersigned, agree that, in the event of my admission as an accredited lighting practitioner of the Illumination Engineering Society of South Africa, I will be governed by the Constitution of the Illumination Engineering Society of South Africa as it may apply at any time. I certify that the information given on this application form is true and correct. I undertake to give the Illumination Engineering Society of South Africa three (3) months notice in writing when terminating membership before membership expires or I will be liable for the duration of membership until resignation is done in writing. I undertake to notify the Illumination Engineering Society of South Africa of any change to my contact details. I hereby consent that IESSA may notify me by email of events.

				Yes / No
<b>I undertake to uphold and abide by the IESSA Code of Conduct</b>				
<b>I undertake to uphold and abide by the IESSA Accredited Lighting Practitioner Application Criteria</b>				
<b>I acknowledge that this accreditation is only valid while I remain a member of IESSA and subscription fees are settled up to date</b>				
Signature of applicant:		Date:		

### FOR COUNCIL USE

Date when application received:			
Member of good standing [Yes / No]:			
<b>Application approved and Accreditation granted [Yes / No]:</b>			
<b>The evaluation of the above applicant meets the minimum requirements and criteria as prescribed in <i>ANNEXURE A: CRITERIA FOR APPLICATION AND ASSIGNMENT EVALUATION</i> of this application and the <i>IESSA Accredited Lighting Practitioner Application Criteria</i> document with proficiency in the designated fields. The evaluation was done by the Illumination Engineering Society of South Africa's Development Committee.</b>			
Development Committee Chairperson's Signature:		Date:	
Secretary's Signature:		Date:	
President's Signature:		Date:	
Accredited Lighting Practitioner No:			
Date of issue:		Card Expiry Date:	



## ANNEXURE A: CRITERIA FOR APPLICATION AND ASSIGNMENT EVALUATION

Evaluation of the application and assignment shall commence upon verification of completeness of submission as per *Section G: Application Submission Check Sheet*.

The evaluation of the application and the assignment shall be based on the following minimum criteria so as to meet the requirements of IESSA and to uphold the *IESSA Constitution, IESSA Code of Conduct* and the objectives of the *Accredited Lighting Practitioner Application Criteria*.

SUBJECT	Exceptionally high quality of work with sound innovative thinking	Fully meeting the normally high standards of lighting	Adequate, but occasionally requiring amendments	Frequently requiring amendments requiring guidance	Experience to be developed further
Objective of each assignment task					
Information base used					
Method of problem analysis					
Method of arriving at a solution					
Criteria used in evaluation					
Handling of hazards and/or environmental aspects					
Lighting engineering judgement					
Problem solving ability per assignment task					
Overall problem solving ability					
Application of lighting principles					
Compliance with regulations					
Communication: Accurate, brief and clear?					
Acceptance of responsibility					
Professional conduct					
Completion of courses relevant to your profession					

**Specific comments** on Applicant's ability to assume responsibility as an Accredited Lighting Practitioner, his/her competence, ability, development and limitations:

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**IESSA**  
ILLUMINATION ENGINEERING SOCIETY OF SOUTH AFRICA  
(Association Not For Profit)

## **ANNEXURE B: ASSIGNMENT SITE LAYOUT DRAWING**