

RFQ Number: 4632/26

Appointment of a service provider to provide an In-Person Basic-to-Intermediate (13) and Advanced (8) Python Training for 21 Research and Development Employees.

Closing Date and Time: 14 October 2026 at 11:00

Validity Period: 60 Calendar days after the closing date.

BRIEFING SESSION

Date:	N/A
Time:	N/A
Venue:	N/A
Compulsory:	N/A

BID DOCUMENTS MUST BE SUBMITTED ELECTRONICALLY TO THE FOLLOWING EMAIL ADDRESS:

RFQsubmissions@weathersa.co.za

ENQUIRIES:

Any clarification required by a bidder regarding the meaning or interpretation of the document or any aspect concerning the submission is to be requested **in writing** from:

SCM: Acquisition Department
South African Weather Service
Email: rfq@weathersa.co.za

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PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF SOUTH AFRICAN WEATHER SERVICE

1 SUPPLIER INFORMATION

The following section must be completed by the bidder. Failure to do so may result in the offer being rejected.

NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	[TICK APPLICABLE BOX] ☐ Yes ☐ No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		[TICK APPLICABLE BOX] ☐ Yes ☐ No
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE / SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BBE SUBMITTED IN ORDER TO QUALIFY FOR POINTS CLAIMED]					

ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS			
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? ☐ YES ☐ NO DOES THE ENTITY HAVE A BRANCH IN THE RSA? ☐ YES ☐ NO DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? ☐ YES ☐ NO DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? ☐ YES ☐ NO IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? ☐ YES ☐ NO IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.			

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION
1.1. Bids must be delivered by the stipulated time to the correct address. Late bids will not be accepted for consideration.
1.2. All bids must be submitted on the official forms provided – (not to be re-typed) or in the manner prescribed in the bid document.
1.3. This bid is subject to the Preferential Procurement Policy Framework Act, 2000, and the Preferential Procurement Regulations, 2022, the General Conditions of Contract (GCC) and, if applicable, any other Special Conditions of Contract (SCC).
1.4. The successful bidder will be required to fill in and sign a written contract form (SBD7).
1.5. Bidders are advised to initial all pages of their bid.
1.6. Submission of RFQ responses Responses to this RFQ must be submitted before the closing date and time indicated on the cover page of the RFQ.
1.7. The South African Weather Service (SAWS) is not bound to accept any of the offers submitted and reserves the right to:
1.7.1 Reject bids that are not according to Specifications / Terms of Reference;
1.7.2 Reject bids with incomplete standard bidding documents (SBD's);
1.7.3 Request further information from any bidder after the closing date of the bid for clarity purposes;
1.7.4 Conduct site inspection/s to verify the infrastructure of bidders before final selection and award;
1.7.5 Not to award the bid if the bid price is not market related;
1.7.6 Not to award the bid to a bidder whose tax matters have not been declared by the SARS to be in order;
1.7.7 Reject a bid if the bidder has committed a proven corrupt or fraudulent act in competing for any contract;
1.7.8 Award the bid in totality to one or partially to more than one bidder;
1.7.9 Conduct reference / background checks on bidders and / or individuals to, among other things, verify information provided by a bidder, confirm a firm's existence and track record, identify its owners and affiliations or verify an individual's educational and professional credentials.
1.8. The South African Weather Service may, prior to award of the bid, cancel the bid if:
1.8.1. Due to changed circumstances, there is no longer a need for the goods or services requested;
1.8.2. Funds are no longer available to cover the total envisaged expenditure;
1.8.3. No acceptable tenders are received;

- 1.8.4. Due to material irregularities in the tender process.
- 1.9. Any effort or attempt by a bidder to influence the award decision in any matter may result in the rejection of the bid.
- 1.10. Costs incurred by the bidder in respect of attending any briefing / information / site visit / presentation will be borne by the bidder and the South African Weather Service will not be liable to reimburse such costs incurred by the bidder or his/her representative/s.
- 1.11. Cost incurred by the bidder in preparing and submission of any bid proposal will be borne by the bidder and the South African Weather Service will not be liable to reimburse such costs incurred by the bidder or his/her representative/s.
- 1.12. The South African Weather Service shall on receipt of any proposal relating to this bid become the owner thereof and shall not be obliged to return any proposal.
- 1.13. The bidders shall indemnify the South African Weather Service against all third-party claims of infringement of patent, trademark, or industrial design rights arising from the use of the goods or any part thereof by the South African Weather Service.
- 1.14. The South African Weather Service reserves the right to request a bidders latest audited financial statements prior to the award of the bid in order to ascertain financial stability of the bidder. Failure by a bidder to provide such information upon request may result in the rejection of the bid submitted by the bidder.
- 1.15. Subcontracting: Tenderers or contractors must submit proof of subcontracting between the main tenderer and the subcontractor. Proof of subcontracting arrangement may include a subcontracting agreement between the main tenderer and the subcontractor.
- 1.16. The SAWS reserves the right to request final presentation only to the short listed bidders to the evaluation committee. The shortlisted service providers will be subjected to present their service offering in line with the bid requirements/scope of work. The SAWS might also conduct site visit to ensure the firm existence and validate the firm's proposed capacity/employees and administration office.
- 1.17. The service provider must have duly approved operational premises with the necessary infrastructure to provide services and relevant accreditation by the relevant body. Before the awarding of the tender a due diligence site visit will be carried out at the premises of the service provider.
- 1.18. Supplier Performance Management is viewed by the SAWS as critical component in ensuring value for money acquisition and good supplier relations between the SAWS and all its suppliers. The successful bidders shall upon receipt of written notification of an award, be required to conclude a SLA with the SAWS, which will form an integral part of the supply agreement. The SLA will serve as a tool to measure, monitor and assess the supplier's performance level and ensure effective delivery of service, quality and value-add to SAWS's business. Successful bidders are required to comply with the above condition, and also provide a scorecard on how their product / service offering is being measured to achieve the objectives of this condition.
- 1.19. The SAWS respects your privacy and acknowledge that your submission/s will contain personal details, which may belong to you, others and / or to your company (Personal Information). By sending us your submissions, you expressly give us consent to process and further process the Personal

Information contained therein which processing will be done in accordance with POPIA, the SAWS POPIA policy and our standard section 18 informed consent documentation which sets out why we need the Personal Information, what we will do with it, and who we will share it with, which you are to familiarise yourself with by downloading it from our website i.e. www.weathersa.co.za

1.20. Unless stated otherwise in this RFQ or as mutually agreed upon by both parties prior to award of the RFQ, all payments due to creditors for goods delivered / services rendered will be settled within thirty (30) days from receipt of an invoice.

1.21. In case of a Joint Venture, Consortium, Trust, or Partnership, a signed teaming agreement must be submitted.

2. TAX COMPLIANCE REQUIREMENTS

2.1 Bidders must ensure compliance with their tax obligations.

2.2 Bidders are required to submit their unique Personal Identification Number (PIN) issued by the South African Revenue Service (SARS) to enable the South African Weather Service to verify the taxpayer's (Bidder's) profile and tax status.

2.3 Application for a Tax Compliance Status (TCS) Pin may be made via e-filing through the SARS website www.sars.gov.za

2.4 Bidders may also submit a printed Tax Compliance Status (TCS) certificate together with the bid.

2.5 In bids where consortia / joint ventures / sub-contractors are involved **each** party must submit a separate TCS certificate / Pin / CSD number.

2.6 Where no TCS Pin is available but the bidder is registered on the Central Supplier Database (CSD), a CSD number must be provided.

2.7 No bids will be considered from persons in the service of the state, companies with directors who are persons in the service of the state, or close corporations with members persons in the service of the state.

2.8 Foreign suppliers with neither South African tax obligations nor history of doing business in South Africa must complete the questionnaire on page 2 and 3 of Annexure A. In instances where a recommendation for award of a bid will be made to a foreign bidder, the South African Weather Service will submit the bidders completed Annexure A bid document to the South African Revenue Service. The South African Revenue Service will then issue a confirmation of tax obligations letter to the South African Weather Service confirming whether or not the foreign entity has tax obligations in South Africa.

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

PART C
DECLARATION BY BIDDER

I, in my capacity as
..... hereby declare that I have read and
understood the contents and conditions of this bid and certify that the information furnished is true
and correct. I accept that, in addition to cancellation of a contract, action may be taken against me
should the information provided prove to be false.

Signature:

Date:

Annexure B

General Conditions of Contract

In accordance with the Framework for Supply Chain Management [Section 76 (4) (c) of the PFMA] that was promulgated in Government Gazette Number 25767 on 5 December 2003 as Treasury Regulations, National Treasury is required to issue general conditions of contract and bid documentation for supply chain management.

This Request for Quotation and any contract emanating from this Request for Quotation are subject to the General Conditions of Contract (GCC) which were revised in July 2010.

The General Conditions of Contract (GCC) revised and issued by National Treasury in July 2010 are available on the website of National Treasury.

http://ocpo.treasury.gov.za/Resource_Centre/Legislation/General%20Conditions%20of%20Contract-%20Inclusion%20of%20par%2034%20CIBD.pdf

Annexure C

Bidder's Disclosure

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, the undersigned, (name).....

..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

3.5 There have been no consultations, communications, agreements or

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

..... Signature	 Date
..... Position	 Name of bidder

Annexure F

Preference Points Claim Form in terms of the
Preferential Procurement Regulations 2022

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

The applicable preference point system for this tender is the 80/20 preference point system.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) “**tender**” means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) “**price**” means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) “**tender for income-generating contracts**” means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) “**the Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \mathbf{Ps} = \mathbf{80} \left(\mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right) & \mathbf{or} & \mathbf{Ps} = \mathbf{90} \left(\mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right) \end{array}$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ \mathbf{Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} & \mathbf{or} & \mathbf{Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} \end{array}$$

Where

Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,
- then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
B-BBEE Status Level of Contributor		
Level 1	20	
Level 2	18	
Level 3	14	
Level 4	12	
Level 5	8	
Level 6	6	
Level 7	4	
Level 8	2	
Non-compliant contributor	0	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

- 4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:
- i) The information furnished is true and correct;
 - ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
 - iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
 - iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

.....	
SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME:	
DATE:	
ADDRESS:	
	
	
	

Annexure G

Pricing Schedule for Services

SBD3.3

NAME OF BIDDER:

1. PRICING SCHEDULE/S

- 1.1 Item 1:** Appointment of a service provider to provide an In-Person Basic-to-Intermediate (13) and Advanced (8) Python Training for 21 Research and Development Employees, as per the annexure H requirements.

All prices must be in South African rand value and must be inclusive of VAT.

- 1.1.1 Bidders are required to indicate a ceiling price based on the total estimated time for completion of all phases and including all expenses inclusive of VAT for the project.

R

- 1.1.2 Any other costs not included in the above price?

☐ *YES☐ NO

* If YES, please specify

1.1.3 Cost break-down of ceiling price in 1.1.1

Bidders are required to indicate the cost component/s used for determining the ceiling price as given in 1.1.1 above.

Description	Cost (VAT Incl.)

1.1.4 Period required for commencement of the project after acceptance of bid?

1.1.5 Are the rates quoted firm for the full period of the project?

YES	*NO
-----	-----

1.1.6 *If not firm for the full period, provide details of the basis on which adjustments will be applied for, for example consumer price index.

Annexure H

RFQ Terms of Reference for services

**In Person Basic-to-Intermediate (13) and Advanced (8)
Python Training for 21 Research and Development
Employees**

1 DESCRIPTION

The South African Weather Service (SAWS) seek to appoint a reputable and suitably qualified training provider to design and deliver in-person training comprising two differentiated, practical Python training streams for twenty-one (21) Research & Development employees. Thirteen (13) participants require Basic-to-Intermediate Python Training, while eight (8) participants require Advanced Python Training incorporating Data Analytics and Geospatial Analysis.

2 INTRODUCTION

The South African Weather Service (SAWS) is a public entity of the Department of Forestry, Fisheries and the Environment (DFFE) and derives its mandate from the South African Weather Service Act (No 8 of 2001 as amended). The public entity is listed as a Schedule 3A Public Entity in terms of the Public Finance Management Act (PFMA).

SAWS is tasked with providing timely and accurate scientific data in the field of meteorology to the broader South African society: a combination of both public good and commercial services. The organisation plays a vital role in South African public life, not just as a provider of key services, but also in empowering citizens to adapt the effects of the ever-changing weather.

3 BACKGROUND

The SAWS Research and Development Department uses Python across scientific research, data processing, data analytics, visualization, workflow automation and operational Numerical Weather Prediction (NWP) activities. Scientists work with large and complex meteorological, climate, remote-sensing, observational and model-generated datasets and, where relevant, use scientific Python tools such as NumPy, pandas, Matplotlib and Iris. However, Python proficiency across the Department is not uniform. A single advanced course would therefore not adequately address both the foundational capability gaps and the specialist technical requirements of employees.

Strengthening Python capability is necessary to enable scientists to process increasing volumes of scientific data; improve data quality control, forecast verification and post-processing; automate repetitive scientific and operational tasks; and develop clear, reproducible and maintainable analytical workflows. These skills are also required to support data assimilation, Earth-system modelling, geospatial analysis, advanced visualization and the development of user-responsive weather and climate products and services.

SAWS therefore requires a two-stream, in-person training programme. The Basic-to-Intermediate stream must establish a consistent foundation in Python programming and scientific-data handling for thirteen (13) participants. The Advanced stream must strengthen eight (8) participants' capabilities in advanced Python programming, data analytics and geospatial analysis. It must enable participants to develop maintainable and reusable scientific software; analyze and visualize complex datasets; process multidimensional meteorological and geospatial data; automate scientific and operational workflows; test and optimize code; and apply appropriate tools to SAWS research and operational use cases.

The training will strengthen and broaden the Department's internal programming capability, reduce reliance on isolated technical expertise, and promote greater efficiency, consistency, reproducibility and collaboration. It will further enhance the Department's ability to translate scientific data and research outputs into quality-controlled, operationally relevant weather and climate products and services that support SAWS's mandate

4 REQUIREMENT / SCOPE OF WORK

This RFQ calls for the appointment of a Service Provider to deliver two differentiated, instructor-led and in-person Python training streams to 21 SAWS participants. The training requirements are divided into:

- **Section 4.1:** Basic-to-Intermediate Python Training for 13 participants; and
- **Section 4.2:** Advanced Python Training for 8 participants.

The Service Provider must address the requirements and curriculum prescribed for each training stream and provide a delivery approach appropriate to the participants' respective levels of competence.

4.1 Minimum Training Requirement

The Service Provider must deliver two differentiated, instructor-led, in-person and practice-oriented Python training streams for 21 participants. Stream 1 must establish a consistent Python foundation and introduce participants to scientific data processing relevant to the SAWS research and operational environment. Stream 2 must strengthen participants' advanced Python programming capabilities and enable them to undertake scientific data analytics, geospatial analysis, meteorological-data processing, workflow automation and performance optimisation within the SAWS environment. The training areas and required specifications for each stream are presented in Tables 1 and 2 below.

Table 1 : Stream 1 — Basic-to-Intermediate Python Training for 13 Participants

Training Area	Required Specifications
General technical requirements	Training must use a currently supported Python 3.x version. The bidder must specify the proposed Python version, distribution, development environment, libraries, installation procedure and compatibility requirements. The proposed environment must support both interactive learning through notebooks and the development and execution of reusable Python scripts.
Environment compatibility	The provider must propose an environment suitable for scientific work on SAWS-approved Windows and/or Linux systems. The proposal must describe how the environment will accommodate virtual environments, dependency management, notebooks, scripts and commonly used scientific Python libraries. Compatibility with shared computing or high-performance computing environments must be introduced at an appropriate level.
Software and installation	The bidder must provide clear installation and configuration instructions before training. Required packages, version constraints and system requirements must

Training Area	Required Specifications
	be declared. Where organisational network or software controls affect package installation, the provider must propose an appropriate supported installation method, including prepared installation files or environment specifications where necessary.
Development tools	Training must use an appropriate Python development environment, such as JupyterLab, Visual Studio Code, Spyder or another suitable platform, subject to compatibility with the approved SAWS environment. Participants must learn how to run code interactively, execute scripts, organise project files, inspect errors and use built-in help and documentation.
Training datasets	Practical exercises must use non-sensitive, synthetic or otherwise authorised meteorological, climate, observational or model-generated datasets. Exercises must reflect realistic SAWS activities such as reading data files, checking data quality, calculating summary statistics, analysing time series and producing scientific visualisations.
Delivery approach	The programme must combine facilitated instruction, live demonstrations, guided practical exercises, independent exercises and an applied mini-project. Sufficient practical time must be provided for participants to write, run, debug and improve their own code.
Participant support	The provider must state the proposed facilitator-to-participant support arrangement. During practical sessions, participants must receive assistance with environment setup, syntax errors, debugging, package use and completion of exercises.
Training resources	Participants must receive electronic training notes, notebooks, Python scripts, exercise datasets, worked examples, solutions, installation instructions and a list of relevant reference materials. Materials must remain accessible to participants after the training.
Assessment	The provider must conduct a short pre-training diagnostic assessment, formative assessments during training and a practical post-training assessment or mini-project. The assessment must measure whether participants can independently develop and execute a basic scientific-data workflow.
Expected competence	On completion, participants must be able to create and manage a suitable Python environment; write readable Python scripts; use core data structures and functions; handle errors; organise reusable code; read and process common scientific-data files; perform introductory data analysis; create appropriate visualisations; and document a reproducible workflow.

Table 2: Stream 2 — Advanced Python Training for 8 Participants

Training area	Required Specifications
General technical requirements	Training must use a currently supported Python 3.x version. The bidder must specify the proposed Python version, distribution, development environment, scientific and geospatial libraries, installation procedure, version constraints and compatibility requirements. The environment must support notebooks, reusable scripts, modular applications and advanced scientific-data workflows.
Participant prerequisites	Participants must possess foundational Python knowledge or demonstrate equivalent competence. The provider must conduct a pre-training diagnostic assessment covering Python syntax, functions, data structures, modules, file handling, NumPy, pandas and basic visualisation. The results must inform the final delivery approach without reducing the required advanced curriculum.
Environment compatibility	The provider must propose an environment suitable for advanced scientific work on SAWS-approved Windows and/or Linux systems. The environment must support virtual environments, dependency management, notebooks, scripts, scientific-data libraries and geospatial tools. The provider must explain how the proposed environment can be transferred to shared computing or high-performance computing environments where applicable.
Software and installation	The bidder must provide installation and configuration instructions before training. All required packages, versions, dependencies, system requirements and external components must be declared. Where organisational network or software controls affect installation, the provider must propose a supported deployment method, including prepared installation files, environment specifications or approved package repositories where necessary.
Development tools	Training must use an appropriate development environment, such as JupyterLab, Visual Studio Code, Spyder or another compatible platform. Participants must learn to structure scientific projects, use notebooks and scripts appropriately, debug applications, manage dependencies, document code and develop reusable modules and packages.
Scientific Python libraries	The proposed environment must include appropriate and mutually compatible scientific libraries. These may include NumPy, SciPy, pandas, Matplotlib, Iris, xarray, netCDF4, h5py, Dask and other justified libraries. The bidder must identify the function of each proposed library and explain its relevance to the curriculum.
Geospatial libraries	The proposed environment must include maintained and compatible geospatial libraries appropriate to the planned exercises. These may include GeoPandas, Shapely, Rasterio, rioxarray, PyProj and Cartopy. The provider must declare any external system dependencies and confirm that the proposed installation approach supports them.

Training area	Required Specifications
Meteorological-data formats	Training must cover the handling of relevant scientific-data formats, including netCDF, GRIB and HDF5, using appropriate libraries compatible with the proposed environment. Exercises must address metadata, coordinates, units, missing values, multidimensional structures, subsetting, transformation and output validation.
Training datasets	Practical exercises must use non-sensitive, synthetic or otherwise authorised meteorological, climate, observational, remote-sensing, NWP and geospatial datasets. Exercises must reflect realistic SAWS activities, including data validation, multidimensional analysis, time-series analysis, spatial analysis, mapping, post-processing and diagnostic generation.
Data analytics requirements	Training must cover data acquisition, validation, cleaning, transformation, exploratory analysis, descriptive statistics, time-series analysis, grouping, aggregation, reshaping, merging and interpretation of results. Participants must learn to develop traceable and reproducible analytical workflows and communicate findings through suitable tables, statistics and visualisations.
Geospatial analysis requirements	Training must cover vector and raster data, coordinate reference systems, map projections, coordinate transformation, spatial joins, clipping, overlays, buffering, raster reprojection, resampling, extraction of gridded values and appropriate spatial summaries. Exercises must demonstrate the integration of meteorological or climate data with geospatial information.
Workflow automation	Participants must learn to automate repeatable scientific processes, including file discovery, data ingestion, quality checks, transformation, analysis, visualisation and output generation. Training must include safe file handling, configuration, structured logging, error recovery and batch-processing principles.
Performance and scalability	Training must introduce profiling, benchmarking, vectorisation, memory-aware processing and appropriate parallel or concurrent processing techniques. The provider must distinguish between input/output-bound and processor-bound workloads and demonstrate performance improvements using measured evidence rather than assumptions.
Code quality and testing	Participants must learn to develop maintainable and testable scientific code. Training must include unit and integration testing, fixtures, parameterisation, mocking where appropriate, exception handling, logging, code formatting, linting, introductory static analysis, documentation and reproducible environment management.
Delivery approach	The programme must combine facilitated instruction, live demonstrations, guided laboratories, independent exercises and an applied capstone project. Sufficient practical time must be allocated for participants to analyse data, develop geospatial workflows, debug code, improve performance and package

Training area	Required Specifications
	their work in a reproducible form.
Participant support	The provider must state the proposed facilitator-to-participant support arrangement. During practical sessions, participants must receive support with environment configuration, library compatibility, scientific-data formats, analytical methods, geospatial operations, debugging, performance issues and completion of the capstone project.
Training resources	Participants must receive electronic training notes, notebooks, Python scripts, exercise datasets, worked examples, solutions, environment specifications, installation instructions and relevant reference materials. Materials must include examples of scientific-data analytics, meteorological-data processing and geospatial analysis and must remain accessible after training.
Assessment	The provider must conduct a pre-training diagnostic assessment, formative assessments during delivery and a practical post-training assessment through an integrated capstone project. The assessment rubric must evaluate code quality, data validation, analytical accuracy, geospatial processing, visualisation, error handling, documentation and reproducibility.
Capstone project	Participants must complete an end-to-end project using a representative non-sensitive or synthetic meteorological, climate or NWP dataset. The project must include data ingestion and validation, advanced data analytics, geospatial analysis, scientific visualisation, structured error handling and documentation of the reproducible workflow. Integration with an operational SAWS system must occur only where expressly authorised.
Expected competence	On completion, participants must be able to establish and manage an advanced Python environment; develop modular, maintainable and tested scientific code; process multidimensional meteorological datasets; undertake data analytics and geospatial analysis; produce scientifically appropriate maps and visualisations; automate repeatable workflows; profile and optimise code; and document reproducible outputs relevant to SAWS research and operational activities.
Training deliverables	The provider must submit the pre-training diagnostic results, confirmed implementation plan, attendance records, completed practical exercises, capstone-project results, assessment records, electronic training materials, environment and installation specifications, source code, exercise datasets and solutions, certificates of completion or competence as applicable, and a post-training report identifying achievements, outstanding capability gaps and recommendations.

4.2 Training Curriculum

The Service Provider must deliver two differentiated Python training curricula for 21 participants. Both training streams must be delivered through instructor-led explanations, live demonstrations, guided laboratory sessions, independent practical exercises and an integrated applied project. Practical activities must use non-sensitive, synthetic or otherwise authorised meteorological, climate, observational, remote-sensing, numerical weather prediction and geospatial datasets, as appropriate to each stream. The minimum curriculum content for the two training streams is presented in **Tables 3** and **4** below.

Table 3: Minimum Curriculum for Stream 1 — Basic-to-Intermediate Python Training for 13 Participants

Topic	Minimum Curriculum Content
1. Introduction to Python	Short history of Python; core features, including dynamic typing; strengths and limitations; common applications; suitability for research, automation, scientific computing and data analysis; and overview of the Python scientific-data ecosystem.
2. Getting started	Obtaining and installing Python through an approved distribution; using interactive mode; understanding how Python interprets and executes code; running scripts and notebooks; using an appropriate integrated development environment; accessing help and documentation; and resolving basic environment and package-related problems.
3. Basic Python language	Variables and basic data types; operators; strings and string operations; lists; indexing and slicing; conditional execution; for and while loops; introductory recursion; functions; parameters and return values; scope; lambda expressions; and readable coding practices.
4. Python 2 and Python 3 compatibility	Key differences between Python 2 and Python 3; recognising legacy Python 2 syntax and behaviour; and principles and tools for migrating legacy code to Python 3. This must be limited to migration awareness. Python 2 must not be installed or used as the primary training environment.
5. Modules, scripts and introductory packaging	Defining and importing modules; developing executable scripts; module search paths; namespaces; module-design principles; information-hiding conventions; organising project files; introductory package structure; virtual environments; dependency installation; requirements or environment specifications; and introductory pyproject.toml concepts.
6. Object-oriented programming	Purpose of objects and classes; classes and objects; attributes, methods and constructors; inheritance and polymorphism; introductory abstract classes; dynamic typing; mixins and multiple inheritance as overview concepts; introspection; class and static members; operator overloading; and introductory object-oriented design considerations.
7. Errors, exceptions and	Differences between errors and exceptions; raising and handling exceptions; defining custom exceptions; handling exceptions at appropriate levels; clean-

Topic	Minimum Curriculum Content
debugging	up using finally and context managers; assertions and defensive validation; introductory debugging; logging; and handling missing, incorrectly formatted or incomplete data files.
8. Python collection types	Lists and list comprehensions; tuples and sequences; sets; dictionaries; queues using appropriate standard-library collections; iterators and generators; selection of suitable collection types; and practical application to scientific observations and time-series records.
9. Decorators, classes as objects and metaclasses — overview	Classes as objects; the default metaclass type; function and class decorators; and introductory dynamic class-creation and class-factory concepts. Metaclasses must be presented only as a specialised overview and not treated as a core competency for this stream. string.Template must be taught under text templating and not as a metaclass.
10. Unit testing and code validation	Purpose of unit testing and programming contracts; writing and running unit tests; test organisation; assertions; introductory fixtures; purpose and basic application of mocking; testing normal, boundary and failure conditions; and testing data-processing functions.
11. Standard library and applied tools	Regular expressions; file and directory operations using pathlib, os and appropriate standard-library tools; text and CSV processing; JSON; XML parsing and generation; basic networking concepts; selected internet or email-support modules where relevant; safe introduction to threading and its appropriate use; and GUI programming only where time permits and a relevant SAWS use case has been identified.
12. Scientific programming foundations	Introduction to NumPy arrays, indexing, masking, vectorised operations and broadcasting; overview of selected SciPy routines; introductory pandas Series and DataFrames; reading, filtering, grouping and summarising tabular data; handling missing values; introductory time-series operations; and Matplotlib visualisation.
13. Introductory meteorological-data workflow	Importing an authorised or synthetic meteorological dataset; inspecting its structure and metadata; identifying missing or invalid values; performing basic quality checks; calculating descriptive statistics; analysing temporal patterns; and producing appropriately labelled scientific visualisations.
14. Applied mini-project	An end-to-end exercise in which participants import a non-sensitive or synthetic meteorological or climate dataset, validate and clean the data, perform an introductory analysis, create visualisations, handle errors and package the work as a documented and reproducible notebook or Python-script workflow.
15. Training deliverables	Pre-training diagnostic results; attendance records; completed practical exercises; assessed mini-project or post-training assessment; electronic

Topic	Minimum Curriculum Content
	training materials; notebooks and scripts; exercise datasets and solutions; installation and environment instructions; participant assessment results; certificates of completion or competence, as applicable; and a brief post-training report identifying achievements and remaining capability gaps.

Table 4: Minimum Curriculum for Stream 2 — Advanced Python Training for 8 Participants

Topic	Minimum Curriculum Content
1. Advanced Python programming foundations	Review of Python data structures, functions, modules and scope; advanced comprehensions; unpacking; lambda expressions where appropriate; iterators and generators; decorators; context managers; and effective use of itertools, functools and collections.abc.
2. Object-oriented design for scientific software	Classes and objects; attributes, methods and constructors; composition and inheritance; polymorphism; abstract base classes; mixins and multiple inheritance; dynamic typing and introspection; class and static methods; operator overloading; dataclasses; and maintainable object-oriented design.
3. Metaclasses and dynamic programming — overview	Classes as objects; type as the default metaclass; dynamic class creation; class factories; decorators compared with metaclasses; and plugin-registration concepts. Metaclasses must be presented as a specialised capability and applied only where a technically justified use case exists.
4. Errors, exceptions, logging and debugging	Errors versus exceptions; raising and handling exceptions; custom exceptions; exception chaining; handling exceptions at appropriate levels of abstraction; clean-up using finally and context managers; assertions; defensive validation; structured logging; debugging; and handling missing, corrupt or incomplete scientific-data files.
5. Testing, code quality and maintainability	Unit and integration testing using pytest or an equivalent framework; test organisation; fixtures; parameterisation; mocking; testing normal, boundary and failure conditions; testing scientific-data workflows; code formatting and linting; introductory static type checking; docstrings; code review; version-control workflow concepts; and reproducible scientific code.
6. Advanced standard-library tools	Regular expressions; file and directory management using pathlib, os and shutil; process execution using subprocess; configuration management; dates and times; text templating using string.Template; XML parsing using xml.etree.ElementTree; basic networking; and safe handling of files and system processes.
7. Scientific-data formats and metadata	Principles and structures of netCDF, GRIB and HDF5; reading, inspecting, subsetting and writing files using compatible libraries such as Iris, netCDF4, h5py, xarray, cfrib and/or pygrib; dimensions, coordinates, units and

Topic	Minimum Curriculum Content
	missing values; Climate and Forecast metadata principles; metadata preservation; and validation of outputs.
8. Binary, text and structured-data processing	Reading raw binary data; byte ordering and endianness; struct unpacking; 32-bit and 64-bit data representations; efficient CSV ingestion; JSON; XML-based metadata; chunked file processing; custom parsers; file-integrity checks; and processing large collections of scientific files.
9. Advanced NumPy and numerical computing	Multidimensional arrays; advanced indexing and slicing; Boolean masking; data types; broadcasting; vectorisation; universal functions; structured arrays; copies and views; memory layout; memory-efficient operations; matrix algebra; and appropriate replacement of inefficient Python loops.
10. Applied SciPy and scientific methods	Appropriate SciPy routines for linear and spline interpolation, descriptive and inferential statistics, optimisation, signal processing, matrix operations and Fourier transforms; selection of scientifically appropriate methods; interpretation of results; and consideration of accuracy and performance trade-offs.
11. Iris and multidimensional meteorological data	Iris cubes, coordinates and metadata; constrained loading; cube extraction and subsetting; cube manipulation; merging and concatenating data; cube mathematics and statistics; interpolation and regridding; coordinate systems; lazy loading; saving cubes; batch processing; and integration with NumPy and Matplotlib.
12. Advanced data management with pandas and xarray	pandas indexing, filtering, grouping, aggregation, pivoting, reshaping, merging and joining; missing and duplicate data; categorical data; dates and times; resampling; rolling calculations; advanced time-series operations; and use of xarray for labelled multidimensional data where compatible with the approved environment.
13. Data cleaning and quality assurance	Data profiling; identification and treatment of missing, duplicate, inconsistent and anomalous values; data-type and range validation; temporal consistency; metadata checks; quality-control flags; traceable cleaning rules; preservation of original data; and documentation of data transformations.
14. Exploratory data analysis and statistical interpretation	Descriptive statistics; distributions; relationships and correlations; temporal and spatial patterns; trend analysis; event-based analysis; climatologies and anomalies; selection of appropriate analytical methods; interpretation of findings; uncertainty and limitations; and avoidance of unsupported conclusions.
15. Meteorological, climate and NWP	Analysis of station observations, remote-sensing data, climate datasets and NWP outputs; temporal and spatial aggregation; forecast-versus-observation comparisons; introductory forecast-verification measures; analysis of model

Topic	Minimum Curriculum Content
data analytics	errors and biases; processing station and gridded data; and generation of traceable analytical outputs.
16. Geospatial data foundations	Vector and raster data models; geographic and projected coordinate reference systems; map projections; spatial resolution, extent and scale; geospatial metadata; common spatial-data formats; geometry validation; coordinate transformation using an appropriate library such as PyProj; and responsible management of geospatial data.
17. Vector geospatial analysis	Use of compatible and maintained libraries such as GeoPandas and Shapely; attribute and spatial selection; geometry creation and manipulation; spatial joins; buffering; clipping; overlays; intersections; dissolving and aggregation; nearest-neighbour analysis; and calculation of distances and areas in appropriate coordinate systems.
18. Raster and gridded geospatial analysis	Use of compatible libraries such as Rasterio, xarray and rioxarray where appropriate; raster metadata; reading and writing raster data; masking and clipping; reprojection; resampling; mosaicking; raster calculations; extraction of gridded values by location or administrative area; zonal statistics; and alignment of datasets with different resolutions and coordinate systems.
19. Advanced scientific visualisation	Advanced Matplotlib visualisation; time-series, scatter, distribution, contour, vector, Cartesian, polar and appropriate three-dimensional plots; multi-panel figures; annotations; legends; colour maps; representation of missing data and uncertainty; metadata communication; and production of publication- and operational-quality outputs.
20. Geospatial mapping	Map production using Cartopy or another maintained geospatial library compatible with the SAWS environment; map projections; coastlines, boundaries and other map features; station plots; vector and raster overlays; gridded meteorological fields; colour scales and legends; integration with Iris plotting; and accurate communication of spatial information.
21. Workflow automation and scientific scripting	Automated file discovery, ingestion, validation, conversion, analysis, visualisation and output generation; Iris-centred cube-processing workflows; batch processing; configuration-driven scripts; structured logging; recovery from interrupted processes; file monitoring; and appropriately controlled data-transfer processes.
22. Packaging and reproducible environments	Virtual environments using venv or an approved alternative; dependency management; environment specifications; project and package structure; pyproject.toml; building wheels; internal package installation; command-line interfaces; separation of code, configuration and data; introductory continuous-integration concepts; and secure handling of credentials and configuration.

Topic	Minimum Curriculum Content
23. Concurrency and asynchronous processing	Appropriate use of threading, multiprocessing, concurrent.futures, job pools and asyncio; differences between processor-bound and input/output-bound workloads; safe parallel-processing patterns; asynchronous data retrieval; exception handling in concurrent tasks; and prevention of common concurrency problems.
24. Performance profiling and scalable processing	Profiling and benchmarking using cProfile and suitable line- or memory-profiling tools; identifying processing and memory bottlenecks; vectorisation; efficient input/output; memory-aware processing; chunking and lazy computation; Dask or an equivalent compatible tool where relevant; and shared or high-performance computing considerations.
25. Introduction to compiled performance extensions	Introduction to Cython where justified; type declarations; compilation of extensions; interaction with NumPy; comparison of Cython with vectorisation and other optimisation approaches; and identification of cases where compiled extensions would or would not provide an appropriate benefit.
26. Data-exploration interfaces and dashboards	Development of a simple interface or dashboard using a framework compatible with the SAWS environment, such as tkinter, PyQt, Streamlit, Panel, Dash or an equivalent maintained framework. The selected framework must be motivated by the use case and must support the inspection, filtering, analysis or visualisation of meteorological or geospatial data.
27. Integrated advanced capstone project	An end-to-end project integrating advanced Python programming, data analytics, geospatial analysis and meteorological-data processing. Participants must ingest an authorised or synthetic dataset; validate and quality-control it; perform temporal, statistical and spatial analysis; generate maps and analytical visualisations; manage errors; produce structured logs; and package the workflow in a tested, documented and reproducible form.
28. Assessment and training deliverables	Pre-training competency assessment; practical exercises; formative assessments; assessed capstone project using a clear rubric; electronic training notes and notebooks; Python scripts; exercise datasets and solutions; environment and installation specifications; documented source code; attendance records; assessment results; certificates of completion or competence, as applicable; and a post-training report identifying achievements, remaining gaps and recommendations.

5. EVALUATION OF BIDS

The RFQ will be evaluated in 4 phases as mentioned below:

- Phase 1: SCM compliance requirements.
- Phase 2: Mandatory Requirements
- Phase 3: Functional evaluation.
- Phase 4: Price and Specific Goals.

5.1 Phase 1: SCM Compliance requirements

RFQs received will be verified for completeness and correctness. SAWS reserve the right to accept or reject a RFQ based on the completeness and correctness of the documentation and information provided.

Bidders are to ensure that they submit the following documentation / information with their RFQ.

Document	Comments
Proof of registration on the Central Supplier Database (CSD) of National Treasury	Bidders must be registered on the CSD. CSD registration number must be provided.
Request for Invitation (Annexure A)	Completed and signed
3.3 for services (Pricing Schedule)	Completed
SBD 4 (Bidder's Declaration)	Completed and signed
SBD 6.1 (Preference Points Claim Form)	Completed and signed if points are claimed (A valid B-BBEE certificate, sworn affidavit, or relevant supporting documentation will be used to claim specific goals.)
SARS (South African Revenue Service) Tax Compliant	Bidders tax matters must be in order
BBBEE Certificate	Valid and compliant original B-BBEE and/or certified copies of Sworn Affidavit must be submitted for any points claimed

Bidders who comply with the above requirements will be considered for further evaluation.

5.2 Phase 2: Mandatory requirements

The following are mandatory must be complied with by the bidder. Please note that bidders will not be evaluated further if they do not provide evidence confirming compliance with any of the specified mandatory requirements.

	Mandatory requirement	Evidence to be submitted with bid
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1	The Service Provider must submit the proof of accreditation with SETA and proof must be within the valid date. OR be part of the university.	Bidder must provide proof of accreditation .
2	The bidder must confirm its ability to deliver both training streams: Basic-to-Intermediate Python Training for thirteen (13) participants and Advanced Python, Data Analytics and Geospatial Analysis Training for eight (8) participants.	Bidder to provide signed confirmation letter included in the technical proposal.
3	Training must be delivered face-to-face, at the Service Provider's premises or another suitable venue arranged by the Service Provider within the Pretoria/Centurion/Midrand area.	Bidder to provide confirmation letter indicating that the training will be face-to-face, at the bidder's training premises or another suitable venue arranged by the Service Provider within the Pretoria/Centurion/Midrand area.
4	The bidder must submit a proposed implementation schedule indicating the duration, contact hours, practical hours, assessment activities and sequence of modules for each stream.	Bidder to provide proposed training schedule for each stream.
5	The bidder must submit a technical-environment plan stating the proposed Python version, development environment, scientific and geospatial libraries, installation approach, system requirements and compatibility considerations.	Bidder must submit the Technical-environment and installation plan of the the proposed Python programme.
6	Practical exercises must use non-sensitive, synthetic or otherwise authorised datasets.	Bidder must provide signed confirmation and description of proposed datasets or dataset types. The bidder must a confirmation letter indicating that no unauthorised access to SAWS operational systems or data will be required

Bidders who comply with the mandatory requirements will be considered for further evaluation.

5.3. Phase 3: Functional requirements

Evaluation of the functional requirements will be done in terms of the criteria as stated in the table below.

Bidders should take note of the Criterion, Weighting & Scoring when responding to this bid.

Criterion	Weight	Score
Provide the content of the Advanced Python, Data Analytics and Geospatial Analysis Training: 1. Introduction to Python 2. Getting Started and Environment Setup 3. Basic Python Language 4. Python 2 and Python 3 Compatibility 5. Modules, Scripts and Introductory Packaging 6. Object-Oriented Programming 7. Errors, Exceptions, Logging and Debugging 8. Python Collection Types 9. Decorators, Classes as Objects and Metaclasses — Overview 10. Unit Testing and Code Validation 11. Standard Library and Applied Tools 12. Scientific Programming Foundations 13. Introductory Meteorological-Data Workflow 14. Applied Mini-Project 15. Assessment and Training Deliverables The bidder must submit a detailed curriculum indicating the content, learning outcomes and practical exercises for each topic.	20	0 = Content not provided or materially non-responsive. 10 = less than 8 of the 15 required topics are addressed 15 = Between 8 and 14 of the 15 required topics are addressed. 20 = All 15 required topics are addressed.
Provide the content of the Advanced Python, Data Analytics and Geospatial Analysis Training: 1. Advanced Python Programming Foundations 2. Object-Oriented Design for Scientific Software 3. Metaclasses and Dynamic Programming — Overview 4. Errors, Exceptions, Logging and Debugging 5. Testing, Code Quality and Maintainability 6. Advanced Standard-Library Tools 7. Scientific-Data Formats and Metadata 8. Binary, Text and Structured-Data Processing 9. Advanced NumPy and Numerical Computing 10. Applied SciPy and Scientific Methods 11. Iris and Multidimensional Meteorological Data 12. Advanced Data Management with pandas and xarray 13. Data Cleaning and Quality Assurance 14. Exploratory Data Analysis and Statistical	20	0 = Curriculum not provided or materially non-responsive. 10 = less than 15 of the 28 required topics are addressed 15 = Between 15 and 27 of the 28 required topics are addressed. 20 = All 28 required topics are addressed.

Interpretation 15. Meteorological, Climate and NWP Data Analytics 16. Geospatial Data Foundations 17. Vector Geospatial Analysis 18. Raster and Gridded Geospatial Analysis 19. Advanced Scientific Visualization 20. Geospatial Mapping 21. Workflow Automation and Scientific Scripting 22. Packaging and Reproducible Environments 23. Concurrency and Asynchronous Processing 24. Performance Profiling and Scalable Processing 25. Introduction to Compiled Performance Extensions 26. Data-Exploration Interfaces and Dashboards 27. Integrated Advanced Capstone Project 28. Assessment and Training Deliverables The bidder must submit a detailed curriculum indicating the content, learning outcomes and practical exercises for each topic.		
Experience and knowledge of the facilitator that will be facilitating the training sessions on advance python training Bidder must provide CV of trainers with his /her academic qualifications at NQF level 7 and above in Information Technology or Computer Science or Data Science and provide copies of certificates as proof of qualifications.	30	0 = None provided / not all documentation provided. 10 = CV and Academic Qualifications, less and then 2-year experience. 20 = CV, Academic Qualifications with between 3–5-year experience 30 = CV, Academic Qualifications with more than 5 years of experience.
Bidder should provide contactable reference letter/s where the bidder has successfully provided advanced python training within the past five years. Bidder to provide the contactable reference letter/s where the Python Training /workshop has been provided with the following information provided: - <i>Name of Institution</i>	30	0 = None provided 10 = 1 Contactable reference letter of successfully provided training, 20 = 2 Contactable reference letter/s provided, where the bidder has provided training successfully. 30 = 3 or more Contactable

- Date training was provided. - Contact details (Telephone or email address)		reference letter/s provided, where the bidder has provided training successfully.
Total	100	

Bidders who score 70 and more will qualify for further evaluation in terms of Price and Specific Goals.

5.4. Phase 4: Price and Specific Goals Evaluation

Bidders who comply with the requirements of this bid will be evaluated according to the preference point scoring system as determined in the Preferential Procurement Regulations, 2022 pertaining to the Preferential Procurement Policy Framework Act, Act No 5 of 2000.

Points for this RFQ shall be awarded for:

- (a) Price; and
- (b) Specific Goals (Refer to Annexure F: Preference Points Claim Form).

The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS (Refer to Annexure F: Preference Points Claim Form)	20
Total points for Price and Specific Goals	100

Subject to section 2(1)(f) of the Preferential Procurement Policy Framework Act, 2000 (Act no 5 of 2000), the RFQ will be awarded to the bidder scoring the highest points.

6. DUE DILIGENCE

The South African Weather Service reserves the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include site visits, reference checks and requests for additional information.

7. SPECIAL CONDITIONS OF CONTRACT

This bid and all contract emanating there from will be subject to the General Conditions of Contract (GCC) issued in accordance with Chapter 16A of the Treasury Regulations published in terms of the Public Finance Management Act, 1999 (Act 1 of 1999). The Special Conditions are supplement to that of the General Conditions of Contract. Where, however the Special Conditions of Contract are in conflict with the General Conditions of Contract, the Special Conditions of the Contract prevail.

SAWS reserve the right to exclude bidders who fail to comply with any of the Special Conditions of Contract as stated below.

7.4. Address where services are required.

The training will be delivered at the Service Provider's premises or another suitable venue arranged by the Service Provider within the Pretoria/Centurion/Midrand area. The venue must have adequate training facilities, workstations or workspace, internet connectivity and the technical infrastructure required to deliver both training streams effectively on the dates that will be agreed upon.

Annexure I

POPIA : Supplier Notice and Consent Form

POPIA: SUPPLIER NOTICE AND CONSENT FORM

I confirm that I am duly authorised to sign this consent form.

Name (Print)

Capacity

Signature

Name of Firm

Date

(Hereinafter referred to as “the **Data Subject** “)

A company/organization duly incorporated under the laws of Republic of South Africa, having its
main place of business

At, with

registration number:.....

POPIA: SUPPLIER NOTICE AND CONSENT FORM

Preparatory Statement

Whereas the “**Data Subject**” is in agreement with the contents of this Notice and Consent Form and grants SAWS permission to process certain confidential/personal information, for purposes of

whereas the “**Data Subject**” is considering making an offer (the “**Offer**”) to SAWS on a solicited Bid/Tender/RFQ/RFP/RFI, subject to conducting due diligence, as a result of which certain confidential/personal information of the Data Subject may be disclosed to SAWS.

The Data Subject hereby gives consent to the following:

1. Purposes

SAWS will process, including collect, your personal information (as set out in point 2 below) for the following purposes:

- a) strategic sourcing;
- b) procurement;
- c) contract management;
- d) supplier management;
- e) invoice management;
- f) payments;
- g) debt recovery;
- h) fraud prevention; and
- i) supplier discovery.

The provision of personal information is voluntary. However, if you do not provide your personal information, we may not be able to perform the above-mentioned purpose/s.

2. Legal basis for the processing

We process your personal information on the basis that (i) processing information is necessary for pursuing our legitimate interests (according to section 11(1) of the Protection of Personal Information Act, No. 4 of 2013 (“POPIA”)), which lies in achieving the purposes as set out in point 1 above, (ii) processing is necessary to carry out actions for the conclusion or performance of “supply chain management functions” for which you are party (according to section 11(1)(b) of POPIA), or (iii) processing complies with an obligation imposed by law on us (according to section 11(1)(c) of POPIA).

We process the following personal information (for specific natural or juristic person and can be used to identify you or that person):

POPIA: SUPPLIER NOTICE AND CONSENT FORM

- a) Master data
 - Name
 - Addresses
 - Contact numbers
 - Email address
 - Other contact details of the supplier
 - Supplier primary contact person's name and contact information
 - Job position and role / qualifications
 - Partner roles of the suppliers needed for invoicing and ordering
 - Identification / company registration number
 - BBBEE status
 - Central Supplier Database number

- b) Accounting and payment information
 - VAT & Income tax numbers
 - Tax clearance pin
 - Bank details
 - Bank account type and number
 - Name of the account holder
 - Attachment of confirmation documents
 - Terms of payment
 - Accounting correspondence

- c) Supplier classification
 - Category
 - Vendor portfolio
 - Product categories
 - Main product category
 - Additional product categories
 - Vendor category.

- d) Declared conflict or potential conflict of interest

- e) Information on goods and/or services offered by supplier
 - quantity and quality of offered goods and/or services
 - other commercial terms of the offer

- f) Contract information
 - commercial terms of the contract
 - legal terms of the contract
 - any other contractual documentation
 - information about contract performance and instances of non-performance

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3. Retention periods

Your personal information will only be kept for as long as we reasonably consider necessary for achieving the purposes set out in point 1 above and as is permissible under applicable laws. We will, in any case, retain your personal information for as long as there are statutory retention obligations or potential legal claims are not yet time barred.

4. Law enforcement

We may disclose personal information if required:

- by a subpoena or court order;
- to comply with any law;
- to protect the safety of any individual or the public; and
- to prevent violation of our supplier relation terms.

5. Regulators

We may disclose your personal information as required by law or governmental audit.

6. Sharing

We may share your personal information with:

- other divisions or public entities within the South African Government as the South African Weather Service (SAWS) is a Section 3(a) public entity under the Ministry of Environmental Affairs and is governed by a Board, so as to provide joint content and services like registration, for transactions and customer support, to help detect and prevent potentially illegal acts and violations of our policies, and to guide decisions about our products, services;
- an affiliate, in which case we will seek to require the affiliates to honor this privacy notice;
- our goods or services providers under contract who help provide certain goods or services or help with parts of our business operations, including fraud prevention, bill collection, marketing, technology services (our contracts dictate that these goods or services providers only use your information in connection with the goods or services they supply or services they perform for the SAWS and not for their own benefit);
- credit bureaus to report account information, as permitted by law;
- banking partners as required by credit card association rules for inclusion on their list of terminated merchants (in the event that you utilize the services to receive payments and you meet their criteria); and
- other third parties who provide us with relevant services, where appropriate.

7. Suppliers rights

Under applicable law, you have, among others, the rights (under the conditions set out in applicable law):

- (i) to check whether and what kind of personal data we hold about you and to request access to and the right to rectify the information collected
- (ii) in certain circumstances, to object to the processing of personal information, in the prescribed manner, on reasonable grounds relating to your particular situation, unless legislation provides for such processing or to object for the purposes of direct marketing; or

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- (iii) to lodge a complaint with the Information Regulator if they believe that their personal information was not used to the intended purpose. The address of the Information Regulator is Woodmead North Office Park, 54 Maxwell Drive, Woodmead, Johannesburg, 2191.
- (iv) Supplier may withdraw his, her, its Consent so long as they provide SAWS with a “withdrawal of consent notice”, through the Information Officer.
- (v) Supplier may request for correction or deletion of personal information or destruction or deletion of record of personal information.

8. Your obligations

You may only send us your own personal information or the information of another data subject where you have their permission to do so.

9. Security

We take the security of personal information very seriously and always do our best to comply with applicable data protection laws. Our website is hosted in a secure server environment that uses a firewall and other advanced security measures to prevent interference or access from outside intruders. We authorize access to personal information only for those employees who require it to fulfil their job responsibilities. We implement disaster recovery procedures where appropriate.

10. Data Storage

We will try to keep the personal information we collect as accurate, complete, and up to date as is necessary for the purposes defined in this notice. Please note that to better protect you and safeguard your personal information, please inform us of any required corrections to your personal information.

11. Limitation

We are not responsible for, give no warranties, nor make any representations in respect of the privacy policies/notices or practices of any third parties.

12 Enquiries

If you have any questions or concerns arising from this notice and consent form or the way in which we handle personal information, please contact the South African Weather Service Deputy Information Officer:

HEAD OFFICE
1263 Heuwel Road
Centurion
0157
+27 12 367 6000
Email for Head Office: CRS@weathersa.co.za