4R Nutrient Stewardship Certification Manual

Definitions and Requirements for Certification of Nutrient Service Providers

Version 2
May 2022
Introduction

The 4R Nutrient Stewardship Certification Program was created to encourage agricultural retailers and independent crop consultants “nutrient service providers” to work with farmers to adopt proven best practices using an approach that provides a science-based framework for plant nutrition management and sustained crop production, while considering specific individual farms’ needs. The Certification Program is voluntary and provides a consistent, recognized, and auditable standard for nutrient service providers within an identified geographic region. This approach provides a science-based framework for plant nutrition management and sustained crop production, while considering specific individual farms’ needs.

Terms and Definitions

4R: An approach for best nutrient management practices developed globally by the fertilizer industry (IPNI, 2012). 4R refers to the Right source, applied at the Right rate, at the Right time in the Right place. The philosophy of the 4R approach is to base nutrient recommendations and application on scientific principles, including site-specific considerations and adaptive management, with the goal of improved sustainability.

Adaptive Management: An ongoing process of developing improved practices for efficient production and resource conservation by use of participatory learning through continuous, systematic assessment. For the purposes of the Standard, the demonstration of adaptive management includes documented on-farm data showing reasonable expectation of improved crop yield without increased risk of harm to water quality.

Agricultural Retailer: An entity that sells agricultural services or inputs.

Agricultural Service Provider: An entity that provides agronomic services related to agricultural production.

Audit: Assessing conformance to a standard thorough review of documents and records. An audit is typically conducted at the site of the program participant and entails both document review and interview. Certification “effective date”.

Audit Report: The report that is prepared by a third-party.

Auditable Evaluation Criteria/Evidence Criteria: Normative statements that are used by auditors to evaluate compliance to a standard.

Certification: The process by which an accredited or authorized person or organization (often a third party) will follow established procedures to assess the conformity against an applicable performance standard. When adequate conformity to the standard has been verified, the accredited or authorized person or organization will attest in writing that a product, process or service conforms to specified requirements.
Certification Body: An independent, third-party organization that will follow established procedures for assessing conformity against an applicable standard to determine certification status of a product, process, or service (see also “Certification”).

Certified Professional: Professional certification that is recognized at a National or International level. For example: Certified Crop Adviser (CCA), USDA-NRCS Comprehensive Nutrient Management Plan (CNMP) Specialist, Certified Professional Agronomist (CPAg), or other relevant accreditation from the American Society of Agronomy or National Alliance of Independent Crop Consultants.

Cover Crop: A crop grown for the protection and enrichment of the soil, which is usually established between periods of regular crop production (e.g., grasses, legumes, clover).

Continuing Education Unit (CEU): One (1) CEU is defined as one (1) hour of quality contact time in training or other qualifying activity addressing the continuing education criterion. For the purposes of the Standard, a qualifying CEU must have been approved by a Certified Crop Adviser (CCA) state board.

Crop Adviser: An individual who provides advice to grower customers about crop management and inputs.

Eutrophication: The enrichment of water bodies with nutrients that stimulates proliferation of aquatic plant life.

Frozen Ground: For the purposes of this Standard, frozen ground is when soil conditions are such that tillage or nutrient incorporation and/or injection after application are not possible at the time of nutrient application, and will not be possible within the next 48 hours as a result of frozen conditions.

Grower Customer: Individual growers or farmers who are clients of the Nutrient Service Provider and receive either a nutrient recommendation from the Nutrient Service Provider, or have nutrients applied by the Nutrient Service Provider.

Maintenance Limit: The upper limit of the maintenance range, a range of soil test levels within which the recommended rate aims to replenish crop removal. Soil test levels above the maintenance limit receive progressively lower rate recommendations, usually declining to zero at a level 10 to 20 ppm above the maintenance limit (for example, see Vitosh et al., 2012).

Nutrient Management Plan: A plan detailing a set of practices designed to maximize nutrient use efficiency and minimize nutrient losses. The criteria for nutrient management plans vary according to state (see NRCS, 2013)

Nutrient Stewardship: Planning and implementation of practices designed to manage crop nutrition for improved efficiency of crop production systems and optimization of nutrient use (see “4R”).

Nutrient Service Provider: General term that refers to entities covered under the scope of the 4R Nutrient Stewardship Standard, including agricultural retailers, agricultural service providers, and certified professionals. For the purposes of the Standard, the relevant functions of Nutrient Service Providers are to provide nutrient recommendations and/or apply nutrients for grower customers.
**Sensitive areas:** Designation for an agricultural area which needs special attention and protection because of its landscape, wildlife or historic interest. Most common examples for the purpose of this program are: buffer zones, surface water, inlets, wells, areas of concentrated flow, and water bodies.

**Setback:** The spatial zone established between the edge of a crop to an identifiable feature such as a water body for the purpose of protecting the feature from adverse impacts.

**Snow-covered:** For the purposes of this Standard, snow-covered ground is when soil cannot be seen because of snow cover.

**Standard:** In general, the normative reference by which a decision to award certification is made. For the purposes of this document, when capitalized, “Standard” refers to the specific guidelines and references established in the 4R Nutrient Stewardship Program.

**Variable Rate Application (VRA):** Application of nutrient according to site-specific rate requirements, as opposed to uniformly throughout a field.
The Certification Process

The 4R Nutrient Stewardship Certification Program occurs on a 3-year certification cycle.

An overview of the 4R Nutrient Stewardship Certification Program cycle is shown below in FIGURE 1.

![Diagram of 3-year certification cycle](image)

The 4R Minimum Standard includes a total of 31 Full-Service requirements, 18 applicable in Year 1, 10 that become applicable in Year 2, and 3 that become applicable in Year 3, as indicated in Table 1 below. Note that all 30 requirements are applicable for Full Service every year following Year 3. Therefore, while Year 4 would represent the first year in the certification cycle, all 30 requirements would be applicable.

<table>
<thead>
<tr>
<th>Audit Year</th>
<th># Requirements</th>
<th># Requirements (Cumulative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
<td>28</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>30</td>
</tr>
<tr>
<td>4 (year 1)</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

Table 1. Summary of Number of 4R Standard Requirements by Audit Year.

During each year (rolling 12 months from previous date of audit) of the certification cycle, the audit process will follow the steps outlined in Figure 2 on the next page.

Each step is explained further below following the illustration (Figure 2). (see next page)
1. Application & Fee to Program Administrator

The first step in the 4R Program is for the client to review the 4R IN Nutrient Stewardship Certification Standard and to complete a 4R IN Nutrient Stewardship Certification Program Application. Completed application forms and the annual program registration fee (fee to be submitted at time of Audit application) will be collected by the 4R Program who will confirm receipt and request any additional information as necessary. An Individual NSP (a single individual) shall pay $100 annual program registration fee with an additional annual cost of $50 per in-house NSP not to exceed $600. A Retail NSP (refers to a single location of an operation which incorporates the work of multiple individuals) shall pay an annual program registration fee of $900. An application form may only be required in the first year of the certification program. In subsequent years, the client may be sent a reminder by the 4R Program Administrator regarding the need to schedule an onsite audit in order to maintain certification status in the program.
2. After Conflict of Interest is complete, contract with Approved 4R Auditor

Following successful application, the Nutrient Service Provider will be directed to offer available dates for the audit to occur. After the Program Administrator completes the conflict of interest review, the 4R Program Administrator will send a standard quote to the Nutrient Service Provider. An auditor is selected for the Nutrient Service Provider based on conflict of interest review, schedule, and proximity. The 4R Program Administrator will then provide the application of the Nutrient Service Provider to the auditor. The auditor will contact the Nutrient Service Provider's main personnel contact to schedule a starting time for the audit. All auditor fees will be invoiced to the 4R Program Administrator. The anticipated auditor fees are outlined in Table 3, below.

Table 3. Anticipated Audit Costs

<table>
<thead>
<tr>
<th>Expenses Possibly Incurred with 4R Certification Audit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onsite Audit, Report, and Corrective Action Request (if applicable)</td>
<td>$900</td>
</tr>
<tr>
<td>Additional Expenses [i.e., mileage, lodging] to be approved by the Nutrient Service Provider prior to the audit</td>
<td>Not to exceed $300</td>
</tr>
<tr>
<td>Additional time beyond a one-day audit and CAP review</td>
<td>$75/hr</td>
</tr>
</tbody>
</table>

3. Audit Planning or Progress Report Requested

Upon receipt of the signed agreement, the auditor will send the client an audit plan. The audit plan will generally include an agenda of activities, a description of the scope of the audit, auditor contact information, and a list of documentation that should be sent in advance to the auditor or prepared for review at the time of the audit.

4. Guidance Documentation Required for 4R Certification

   F- Full-Service Provider; R= Recommendation only Provider; A= Application only Provider

5. Audit and First Auditor Invoice

Onsite audits for the 4R certification cycle will consist of a visit to the office of the Nutrient Service Provider. The visit to the Nutrient Service Provider will primarily include a review of documentation necessary to evaluate the Nutrient Service Provider’s performance against the 4R Nutrient Stewardship Certification Standard. A list that outlines the Nutrient Service Provider’s grower customers and number of acres per grower customer in each of the four categories (i.e., full service, recommendations only, application only, and other) will be used to evaluate the auditable criteria. In addition, the visit to the office of the Nutrient Service Provider will include interviews with staff responsible for nutrient recommendations and application. Upon completion of the audit, the Nutrient Service Provider will receive an invoice directly from the 4R Program Administrator not to exceed $1,500 unless any additional audit time beyond the one-day audit is considered necessary. These additional fees will be discussed with the Nutrient Service Provider prior to billing.
The following is an example of additional audit time necessary: Nutrient Service Provider will not allow auditor to make copies of documentation to assist in the auditor's compilation of the audit report.

Note that the scope of the 4R Program audit covers a single branch location or operation of a Nutrient Service Provider entity. Separate audits are required for Nutrient Service Providers with separate branch operations.

Auditors will use the 4R IN Nutrient Stewardship Certification Program: Audit Checklist in order to gather information during the audit.

6. Audit Reporting to NSP and Program Administrator
Following the audit, the auditor will prepare an audit report which details the findings of the audit and provides a summary of all non-conformities identified. Audit reports will be completed using the 4R Report Template. After internal review by the Certification Body, the report will be finalized and sent to the client along with the Corrective Action Request (CAR) if any non-conformities were identified within 30 calendar days of the audit.

7. Corrective Action Procedure agreed on between Auditor & NSP
In order to become certified in the 4R Program, the Nutrient Service Provider must satisfy all applicable requirements in the 4R Nutrient Stewardship Certification Standard. For example, a Nutrient Service Provider Full Service will need to satisfy all 18 of the Year 1 requirements for the first audit in the program. If any non-conformities were identified during the audit, the client will receive a Corrective Action Request (CAR) along with the audit report. The client will need to satisfactorily address the non-conformities by submitting a Corrective Action Plan (CAP) and supporting evidence in order to be considered for certification. Supporting evidence for each corrective action may include the following: specific timeline, lead person to implement, completed event agenda, documentation of change in procedure, or sample maps. The Nutrient Service Provider will complete the CAP within 30 calendar days of receiving the audit report. The client will do so by sending their completed Corrective Action Plan to the auditor for review, with any supporting evidence. Upon review, the auditor will determine whether the non-conformities were satisfactorily addressed and respond to the NSP within 10 days any additional supporting evidence that is needed. Once all non-conformities have been satisfactorily addressed the CAP will be considered “closed” based on the information provided. The costs for the audit and audit report and corrective action plan, if needed, is outlined in Table 3.

8. Certification Decision
In cases where no non-conformities were noted during the audit, the Certification Body may review the final version of the audit report and will issue a certification recommendation. In cases where non-conformities were reported, the Certification Body will review both the audit report and proposed corrective actions, once the CAP review has been closed by the auditor and will issue a certification recommendation. The Nutrient Stewardship Council will review the recommendation and make a final decision on certification. In cases where it is not possible to grant certification, the certification administrator and/or auditor will include a formal explanation in writing for the client.

1 The Certification Body is made up of Nutrient Stewardship Council representatives, excluding the agricultural retailers.
decisions will be provided to the NSP no later than two weeks following the finalization of the audit report.

9. Post-Certification Actions & Final Auditor Invoice

Nutrient Service Providers will be required to undergo an audit every 12 months using the Year 1 Certification audit date as the effective date and submit their annual program registration fee in order to maintain status in the program.

4R Nutrient Certified Logo Use: All 4R Certification logos used in presentations, in print or electronically need to meet the guidelines as listed on the [www.nutrientstewardship.com](http://www.nutrientstewardship.com) website.

4R Certification Suspension: The certification of a Nutrient Service Provider may be suspended in certain cases, for reasons such as failing to undergo the annual audit, failing to submit annual program registration fee, non-compliance with the 4R Standard without sufficient corrective action process, and voluntary cancellation.
4 References

4R Program Documents

Certification Program References

4R IN Nutrient Stewardship Certification Manual

Auditor Manual for 4R IN Nutrient Stewardship Certification

Primary External References

Indiana Natural Resource Conservation Service 590 Standard;

Purdue University Nitrogen Management Guidelines for Corn in Indiana;

Tri-State Fertilizer Recommendation Guide;

Corn Nitrogen Rate Calculator;

Indiana Department of Environmental Management Confined Feeding Program;

Office of Indiana State Chemist Fertilizer Laws and Regulations

Cornell Guidelines


CONTACT/QUESTIONS
Questions about the 4R Nutrient Stewardship Certification Program or this document should be directed to the 4R Program Administrator:

Agribusiness Council of Indiana

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