

5 Training Data Feed

5.1 Training Revision Sheet

Chapter Release No.	Date	Training Revision Description
1.0	05/13/2004	Initial version released to OPM EHRI Program Office
1.1	05/28/2004	Added section 4.3 (old 3.1), reporting requirements. Added text to section 4.4 (old 3.2) to describe how the XML format will be validated prior to loading. Added text to section 4.6.2 (old 4.2.1) to indicate that values must be provided for all mandatory fields. Added section 6.4 (old 6.3) to describe edits performed on individual records. Added mandatory fields in section 4.7.2 (old A.2). Added section 0 (old A.3) containing sample delimited file. Added annotation, format and length information to XML schema definition in section 5.9.2 (old B.2). Added schema location information to sample XML file in section 5.1.1 (old B.3). Added section 5.7 (old Appendix C), containing individual field and relational edit rules.
1.2	06/09/2004	Added table D-2 (old table 2-2), Operational Contact List. Modified section 4.6.2 (old 4.2) to indicate that XML is the preferred format. Reformatted section 6.4 (old 6.3). Added explanation of mandatory and optional in section 4.7.2 (A.2). Modified XML Schema to place AgencySubelement element within EmployeeType element. Added Appendix A – Reference Data Value Standards (old Appendix D).
1.3	06/11/2004	Added paragraph on Academic Degree Data to section 4.3 (old 3.1). Made Training Accreditation Indicator an optional element.

GUIDE TO HUMAN RESOURCES REPORTING

Chapter 5: Training Data Feed

Chapter Release No.	Date	Training Revision Description
2.0	10/11/2004	<p>Updated Appendix D (old 2.0) to include OPM Connect:Direct point of contact information that was originally found in this chapter.</p> <p>Updated section 5.1 to provide more detail on the file transfer process.</p> <p>Updated section 6.4 (old 6.3) to clarify the description for the Add, Correct (previously called Update), and Delete record actions.</p> <p>Modified section 0 (old A.3) to reflect the latest Record Specification. Please refer to Appendix C, C.5 (old Appendix F) for the specification release notes detailing the difference in the file format for this release.</p> <p>Updated old Appendix A.1 to correctly specify the DATE format to not include zero in the day range.</p> <p>Updated old Appendix A.2 to explain the new Reporting Criteria column in the file format specification table. This column replaces the previous “Mandatory/Optional” column and includes the third criteria of “Critical.”</p> <p>Modified old Appendix C to update all the edit rules for the new fields added to the file format. Also modified the edit rules to take into consideration the new “Critical” reporting criteria.</p> <p>Updated Appendix A (old Appendix D) with the new valid values for all the training reference values that were originally found in this chapter.</p> <p>Added Appendix C (old Appendix F) to detail all the changes to the file format specification. This revision sheet and Appendix C should be updated in tandem.</p>
3.0	02/02/2005	<p>Provided more specific information regarding training requirements:</p> <ul style="list-style-type: none"> - Training Delivery Type Code: data definitions added to the chart - Materials Cost: new data definition added. (Old definition: Cost of the training materials for training completed by the employee that was paid for by the Federal government. This includes all direct costs associated with purchasing and/or producing the training materials used by the students (e.g, Costs of supplies, licenses, contractor provided services, and costs for equipment and software used specifically for the production of training products and materials). It does not include distribution costs of the training materials or salary costs of government employees involved in producing training materials.
3.1	2/18/2005	<p>Updated with new Training file format.</p> <p>Updated to be more specific about what ASCII character set should be used to create the file.</p> <p>Replaced the Reporting Criteria Explanation section with the Policy Reporting Requirement Explanation and the Record Identifying Requirement Explanation (4.7.2.2) sections.</p>

Chapter Release No.	Date	Training Revision Description
3.2	07/27/2005	Modified to remove the Training Funding Source data element from the XML Schema definition. This data element was previously removed from the delimited file record specification.
3.3	10/20/2005	Added note in section 4.7.1 describing handling of null numeric values. Added a new Training Credit Type Code (ICD Seq #16) value to support training that doesn't fit one of the existing types ("N/A"). Modified training credit designation type code, training credit, training credit type code relational edit to include check for N/A in training credit type code.

Chapter Release No.	Date	Training Revision Description
3.4	8/11/2006	<p>Updated the text in section 4.3 to better describe the reporting requirements and policy dates, and provided contact information for key OPM contacts.</p> <p>Minor wording edits in sections 4.2 and 4.5 to improve clarity.</p> <p>Added a suffix to the training file name to support versioning of the interface. This version of the Guide is 3.4 therefore the version suffix should be “_3.4”.</p> <p>Changed the Delimited and XML File Format sections to subsections of 4.6.2 for clarity.</p> <p>Removed the ASCII character set file format requirement in section 4.6.2 and replaced it with a description of the Connect:Direct functionality that will manage any necessary character set translation.</p> <p>Added text in 4.6.2.1 regarding delimiters not being required before the first field in the record.</p> <p>Added reserved symbols for XML files in section 4.6.2.2, along with some further details about XML file requirements.</p> <p>Added requirements for an email notification of file transmissions in section 4.6.3.</p> <p>Described the proper treatment of negative values in section 4.7.1.</p> <p>Added “Dup” to valid values for the Record Identifying Requirement described in section 4.7.2.2.</p> <p>Added explanation of the record action values in section 4.7.2.3.</p> <p>Changed column headers in section 4.7.3 from “System Rep Req” to “Record ID Req” for consistency between chapters, and “Codes” to “Notes” as the column contains more than code values.</p> <p>Added “Dup” to the Record ID Requirements for every field on the interface.</p> <p>Changed the Policy Reporting Requirement to 2 from 4 for Training Start Date (ICD Seq #9), Continued Service Agreement Expiration Date (ICD Seq #11), Training Credit (ICD Seq #14), and Training Credit Type Code (ICD Seq #16).</p> <p>Updated notes for Record Action (ICD Seq #1) and Birth Date (ICD Seq #3).</p> <p>Added “Expiration Date” element in the sample XML file in section 4.8.2.</p> <p>Updated edits in section 4.9.1</p> <ul style="list-style-type: none"> - Deleted edit on Continued Service Agreement Expiration Date - Changed edit on all numeric checks to store “zero” vs. “null” if value is not numeric <p>Added Training End Date to add, delete, and correct relational edits in section 4.9.2.</p>

Chapter Release No.	Date	Training Revision Description
4.0	06/08/2007	<p>Updated contact information in Section 4.3.</p> <p>Corrected file naming convention to use an underscore (“_”) instead of a period (“.”) between the Version (V) number and Release (R) number in section 4.6.1.</p> <p>Added requirement for a ‘negative report’ email in section 4.6.3.</p> <p>Changed the contents of 4.7.2 to describe the new interface requirements table layout which contains new record identifier, priority, and retirement columns.</p> <p>Updated the data requirements in Sections 4.8 based on the GHRR ICD Version 4.0 requirements approved on 6/5/2007.</p> <ul style="list-style-type: none"> - Changed priority ratings to 1-4 scale. - Added “Retirement” column and flags. - Updated notes and record identifier flags for several existing fields. - Added new travel indicator field (ICD Seq #27). <p>Updated the XML schema and sample XML file.</p> <p>Added additional edits to Section 4.10.</p>
4.3	08/31/2019	<p>Removed the Training Record Specification table from this Chapter and placed it as a separate PDF file. The table can also be found with the Raw Datasets found on the Data, Analysis & Documentation webpage. To access the webpage, go to: https://www.opm.gov/data/Index.aspx?tag=EHRI</p> <p>Modified descriptions in several fields to match descriptions in the Guide to Data Standards.</p>
4.4	1/22/2021	Updated footers to reflect version 4.4 release

5.2 Overview of Training Data Feed

The goal for the Training Data Feed is to securely acquire training data for Federal civilian employees. The collection of training data supports OPM’s Government-wide reporting responsibilities and provides valuable input into the evaluation of human capital programs at numerous levels of Government. Agencies are responsible for ensuring that the data reported to OPM via the Training Data Feed is accurate and complete.

OPM’s authority to require Federal agencies to report training data can be found in Title 5 United States Code, Chapter 4107 and part 410 of Title 5, Code of Federal Regulations (CFR). Federal agencies must report the training data specified in this guide for each employee and establish a schedule of records to be maintained in accordance with regulations promulgated by the National Archives and Records Administration (NARA) and the General Service Administration (GSA). Additional authorities that require Federal agencies to report data can be found in 5 CFR part 293.

5.3 Employee Coverage

The EHRI Training Data Feed covers all Federal civilian employees of the Executive Branch, except those in the:

- Central Intelligence Agency
- Defense Intelligence Agency
- Federal Reserve System - Board of Governors
- National Geospatial-Intelligence Agency
- National Security Agency
- Office of the Director of National Intelligence
- Office of the Vice President
- Postal Rate Commission
- Tennessee Valley Authority
- U.S. Postal Service
- White House Office

EHRI also does not include: (1) non-U. S. citizens in foreign countries, (2) non-appropriated fund personnel, (3) commissioned officers in the Department of Commerce, Department of Health and Human Services, Department of Homeland Security, and the Environmental Protection Agency, (4) employees of the Judicial Branch, and (5) as of March 2006, foreign service personnel in the Department of State. Legislative Branch coverage is limited to the Government Printing Office, the U.S. Tax Court, and several small commissions.

Providers should only submit data for completed training units. A completed training unit is defined as a training event for which the student has accomplished all components in the title of the event.

Agencies should report using all training data elements required in this guide. Training data are reported on an individual employee basis, which means the reporting of all training data element codes for each completed training event for each employee. Agencies will use the appropriate codes and values provided in this guide to report on the training events and costs associated with those events.

Depending on the source of training related data, one provider may submit data for many agencies. The data files must be formatted and transmitted as specified in this guide.

5.4 Training Data Submission Requirements

5.4.1 File Content

The providers are responsible for creating the training files. Two file formats will be accepted – a delimited format and an XML format. XML is the preferred format and providers should submit training data in XML format when possible. EHRI supports the delimited file format only for providers who have no current means of generating XML data files. Only one of the formats should be submitted for each agency/subelement.

5.4.1.1 Delimited File Format

Providers submitting a file in the delimited file format must comply with the following rules:

- Each line of the file must contain one record.
- Each record will contain all of the fields listed in Training Record Specification, ordered by element sequence number, with each field separated by the vertical bar character (‘|’).
- Even if there is no value supplied for a field, the delimiter must still appear in the file.
- Values must be supplied for all mandatory elements.
- No delimiter is required before the first field or after the last field in the record.

5.4.1.2 XML File Format

Providers submitting a file in the XML file format must comply with the following rules:

- The file must be formatted according to the EHRI Training schema.
- The file must be a well-formed XML document as defined in the XML 1.0 specification.
- The file validates successfully against the EHRI Training schema.
- Each record will contain all of the fields listed in the Training Record Specification.
- If there is no value supplied for a field, the corresponding XML tags can be omitted.
- Values must be supplied for all mandatory and critical elements.
- Reserved symbols in XML must be translated correctly:
 - Less-than (“<”) = “<”
 - Greater-than (“>”) = “>”
 - Ampersand (“&”) = “&”

5.4.2 Email Notification of File Transmission

Providers shall notify OPM of data submissions by sending an email to ehri_files@opm.gov. The email notification is required for a file to be processed, and must contain the name of the file and the record count of the file being transmitted. The email should indicate if the transmission is a resubmission, which is also denoted by the file name. The email should also include a “signature” consisting of the submitter’s name, agency, and telephone number. A “negative” report email should be transmitted to the above email address in the event there are no records to be reported for the period.

5.4.3 File Naming Convention

The file name will conform to the following naming convention.

TFYYYYMMDDAAAAN_V_R

Each portion of the file name is explained in the following table.

Name Segment	Description
T	Constant value of “T” indicating the training data file type
F	Indicates the format of the file (D for delimited files, X for XML files).
YYYY	For file as of date, indicates century (19 to 20) and year (01 to 99)
MM	For file as of date, indicates month (01 to 12)
DD	For file as of date, indicates day (01 to 31)
AAAA	Indicates the agency code or agency/subelement code for the submitting agency.
N	Resubmission Indicator. On the first submission for each as of date, N is a numeric zero. If the data is resubmitted for the same as of date, the value of N is increased by 1.
V_R	Version (V) and Release (R) numbers for this Guide. This will allow the data warehouse load program to identify the correct file layout during transmission and loading of the file. NOTE: Please refer to the Version and Release number in file Training Record Specification section of this document.

5.4.4 Transmission Frequency

Training files should be transmitted on a monthly basis. Providers are responsible for scheduling data transmissions to EHRI.

5.4.5 Quality Requirements

The Office of Personnel Management will accept a training submission if errors on key fields are within tolerances. EHRI edits submissions for compliance with data standards and internal

consistency. Data that fail the edits are errors. Error rates are computed for each agency and for major subelements within selected agencies. Tolerances are error rates of 3%.

5.4.6 Explanation of Record Actions

There are three types of record actions in the specification: Add, Correct, and Delete. The majority of records should be sent as Add type (Record Action = “A”). This will satisfy the normal reporting requirements for each training reporting period, and each record should include all fields in the training file specification.

The Correct and Delete record actions should be used to fix previously transmitted data. For example, if a record was sent in the interface and it was determined at a later point that the training did not actually occur, a Delete record would be sent containing only the key fields of the record. A correction record should be sent to fix a record that was sent in error. For correction actions, the entire training record must be submitted including the key fields and ALL training fields. Sending only corrected fields will result in other fields in the previously transmitted record to be removed.

5.5 Quality Control

The EHRI data load process loads submitted training data files into the EHRI data warehouse staging tables. As data is moved to the staging tables, no edits or audits are performed. The Extract, Transform and Load (ETL) process then moves the data from the staging tables to the EHRI data warehouse. During the ETL process, EHRI performs the required edits and audits and applies business rules as needed. The load process captures relevant metadata for reporting and debugging purposes.

Training data providers are responsible for assuring that the data submitted to EHRI is accurate and complete. For this purpose, agencies must do quality control tests of the data they provide to EHRI from their internal personnel data systems. To help agencies, an edit guide on the OPM website describes the edits used to check the validity of individual data elements and the proper relationship of values among associated data elements. Agencies should incorporate the edits into their internal personnel data systems at a location in the system that will maximize the effectiveness of their quality control efforts. These edits constitute the minimum level of quality control. Agencies are encouraged to supplement them based on the specifics of their internal programs and operations.

Submissions not meeting acceptance standards are returned to the agency for correction and resubmission. Agencies regularly receive summary reports of error patterns and detailed reports of specific edit failures for follow-up correction processing in later submissions.

Additionally, the Office of Personnel Management gives agencies a quality control report for each submission that shows the number and type of errors in their submissions, the number of records received and processed, and other quality control information. Agencies should correct the incorrect data and verify that the number of records recorded represents the complete submission.

5.6 Quality Control Reports

OPM makes information resulting from processing EHRI submissions available to data providers in the form of quality control reports and error files for each training data submission. The EHRI data quality control reports and error files are available on the EHRI portal. These reports are particularly useful to submitters in monitoring their submission process. Deviations from previous norms should be carefully analyzed because they typically indicate that issues have arisen in the system that gathers and sends EHRI data from the agency to OPM. Quality Control Summary Reports are automatically emailed to Provider POCs at the end of each processing cycle. Error Records and Formatted Error Records Reports can be accessed / downloaded securely on the EHRI Portal. Provider POCs are given access credentials once access forms are submitted to EHRI.

Two types of quality reports are generated:

Quality Control Summary Report

- Provides information of the submission at a summary level (records processed, records rejected, error counts, edit codes and descriptions, etc.).

Error Records Reports

- Contains actual error records of the submission (PII data) in a text file.
- Pipe delimited format with error codes appended to each error record.

5.7 Edit Rules

5.7.1 Individual Field Edits

Field Name	Edit Rule	Action Taken If Edit Rule Fails
Record Action	Check if code value is valid	Reject record
Social Security Number	Check if value is numeric	Reject record
Birth Date	Check if valid date	Reject record
EHRI Employee ID	None	N/A
Agency/Subelement Code	Check if code value is valid	Reject record
Training Title	Check if non-blank	Reject record
Training Type Code	Check if code value is valid	Reject record

GUIDE TO HUMAN RESOURCES REPORTING

Chapter 5: Training Data Feed

Field Name	Edit Rule	Action Taken If Edit Rule Fails
Training Sub Type Code	Check if code value is valid	Reject record
Training Start Date	Check if valid date	Report error; If date is null, store “No Data Reported“; If date is invalid, store “Invalid Data”
Training End Date	Check if valid date	Report error; If date is null, Reject Record If date is invalid, Reject record
Continued Service Agreement Required Indicator	Check if code value is valid Valid values: Y, N, NA	Report error; If code is null, store “No Data Reported“; If code is invalid, store “Invalid Data” If code is not Y, N, NA report error
Training Accreditation Indicator	Check if code value is valid Valid values: Y, N	Report error; If code is null, store “No Data Reported“; If code is invalid, store “Invalid Data” If code is not Y, N report error
Training Credit	Check if value is numeric	Report error; If value is null or not a number, store zero
Training Credit Designation Type Code	Check if code value is valid	Report error; If code is null, store “No Data Reported“; If code is invalid, store “Invalid Data” If code is not one of the values listed Appendix A report error

GUIDE TO HUMAN RESOURCES REPORTING

Chapter 5: Training Data Feed

Field Name	Edit Rule	Action Taken If Edit Rule Fails
Training Duty Hours	Check if value is numeric	Report error; If value is null or not a number, store zero
Training Non Duty Hours	Check if value is numeric	Report error; If value is null or not a number, store zero
Training Delivery Type Code	Check if code value is valid	Report error; If code is null, store “No Data Reported”; If code is invalid, store “Invalid Data” If code is not one of the values listed Appendix A report error
Training Purpose Type Code	Check if code value is valid	Report error; If code is null, store “No Data Reported”; If code is invalid, store “Invalid Data” If code is not one of the values listed Appendix A report error
Training Source Type Code	Check if code value is valid	Report error; If code is null, store “No Data Reported”; If code is invalid, store “Invalid Data” If code is not one of the values listed Appendix A report error
Training Materials Cost	Check if value is numeric	Report error; If value is null or not a number, store zero

Field Name	Edit Rule	Action Taken If Edit Rule Fails
Training Per Diem Cost	Check if value is numeric	Report error; If value is null or not a number, store zero
Training Travel Cost	Check if value is numeric	Report error; If value is null or not a number, store zero
Training Tuition and Fees	Check if value is numeric	Report error; If value is null or not a number, store zero
Non-Government Contribution to Training	Check if value is numeric	Report error; If value is null or not a number, store zero
Travel Indicator	Check if code value is valid Valid values: Y, N, NA	Report error; If code is null, store “No Data Reported”; If code is invalid, store “Invalid Data” If code is not Y, N, NA, report error

5.7.2 Relational Edits

Field Names	Edit Rule	Action Taken If Edit Rule Fails
EHRI Employee ID, Social Security Number, Birth Date	The employee data must match an existing employee	Reject record
Record Action, EHRI Employee ID, Social Security Number, Birth Date, Training Title, Training End Date, Training Type	If record action is “Add”, the employee must not have an existing record with the same training title and start date (if provided)	Reject record
Record Action, EHRI Employee ID, Social Security Number, Birth Date, Training Title, Training End Date, Training Type	If record action is “Correct”, the employee must have an existing record with the supplied training title and start date (if provided)	Reject record

GUIDE TO HUMAN RESOURCES REPORTING

Chapter 5: Training Data Feed

Field Names	Edit Rule	Action Taken If Edit Rule Fails
Record Action, EHRI Employee ID, Social Security Number, Birth Date, Training Title, Training End Date, Training Type	If record action is “Delete”, the employee must have an existing record with the supplied training title and start date (if provided)	Reject record
Training Type, Training Sub Type	Training Sub Type must be valid for the given Training Type.	Reject record
Training Start Date, Training End Date	End date must be greater than or equal to start date	Reject record
Continued Service Agreement Expiration Date, Training End Date	Expiration date must be greater than or equal to end date	Report error
Continued Service Agreement Expiration Date, Continued Service Agreement Required Indicator	If the continued service agreement indicator is ‘Y’, the continued service agreement expiration date must be a valid date	Report error
Training Credit Designation Type Code, Training Credit, Training Credit Type Code	If training credit designation type is valid and not NA, training credit and training credit type code must be provided, and training credit type code must not be NA. If training credit is greater than zero, training designation type code and training credit type code must be provided and must not be NA.	Report error
Training End Date, As of Date	The training end date must be less than or equal to the as of date for the training file.	Report error
Training Accreditation Indicator, Training Credit	If training accreditation indicator is ‘Y’, training credit must be greater than zero. If training credit is greater than zero, training accreditation indicator must be ‘Y’.	Report error
Travel Indicator, Training Per Diem Cost, Training Travel Cost	If travel indicator is ‘Y’, training per diem cost and training travel cost must both be greater than zero.	Report error
Training Source Type Code, Non-Governmental Contribution to Training	If source type is ‘Non-government’, non-governmental contribution to training must be greater than zero.	Report error

Field Names	Edit Rule	Action Taken If Edit Rule Fails
Training Source Type Code, Training Tuition and Fees	If training source type is one of the valid code values and not 'Non-government', training tuition and fees must be greater than zero.	Report error

5.8 Overall Record Specification

5.8.1 Overview

The training file elements are described in tabular format, with the following column headers: ICD Seq #, EHRI Ref#, Data Element Name, Data Element Description, Data Concept, Datatype, Record Identifier, Priority, and Notes. The table below describes columns appearing in the record specification sections.

Column	Description	Valid Values
ICD Seq #	Sequential number to identify fields in this version of the record specification. Number assigned to a data element may change between versions.	
EHRI Ref #	Internal EHRI reference number assigned to data elements. Used to tie elements back to EHRI metadata repository.	
Data Element Name	Name of the data element.	
Data Element Description	Description of the data element.	
Data Concept	Name of grouping for specific data elements in the record specification.	
Data Type	The data element data format and length.	

Column	Description	Valid Values
Record Identifier	Indicates how EHRI will handle incoming records during the data load process.	Y Field must be present on the record or it will be rejected.
		Dup Field will be used to determine if this record is a duplicate.
		<blank> Will not reject or be used in duplicate check.
Priority	Indicates the criticality of fields being submitted to EHRI. All data elements are requested (with the exception of priority “4” fields) if they are available and applicable to the employee record. Note the priority scheme changed in version 4.0 of the GHRR to provide more clarity on what EHRI is expecting from providers.	1 Mandatory for Compliance 2 High Priority 3 Low Priority 4 Priority TBD (Not required for submission at this time.)
Notes	Additional details or guidance about the data element.	

5.8.2 Data Element Format Types

This table describes data types appearing in the record specification table found in the Training Record Specification section.

Format	Meaning	Examples
VARCHAR(n)	A series of up to n alphanumeric and special characters, not including the vertical bar character ().	123-45-6789 125 Main St., S.W. Y OM00

Format	Meaning	Examples
NUMBER(n)	<p>A series of n numeric characters.</p> <p>Negative values can be sent in this field, and are submitted using a negative symbol (“-“) immediately preceding the number being sent, with no leading or trailing spaces. For example, a negative days total is sent as -10.</p> <p>NOTE: any null (empty) values passed into a number field will be translated by the interface into a “0” (zero).</p>	<p>0</p> <p>180</p> <p>-10</p>
DECIMAL(n, m)	<p>A series of n numeric characters with up to m characters to the right of the decimal point. The decimal point should appear in the element value if required. A decimal point is neither required nor implied, i.e., 400 represents 400, not 4.00.</p> <p>Negative values can be sent in this field, and are submitted using a negative symbol (“-“) immediately preceding the number being sent, with no leading or trailing spaces. For example, a negative one hundred dollar amount is sent as -100 or -100.00.</p> <p>NOTE: any null (empty) values passed into a number field will be translated by the interface into a “0” (zero).</p>	<p>For a format of Decimal(9,2):</p> <p>0</p> <p>1500</p> <p>1234567.89</p> <p>1234.0</p> <p>0.75</p> <p>-100</p> <p>-5.00</p>
DATE	<p>A date consisting of a 4 character year, a 2 character numeric month (01-12), and a 2 character numeric day (01-31), separated by dashes.</p>	<p>1960-01-01 (= January 1, 1960)</p> <p>2004-12-31 (= December 31, 2004)</p>

5.9 Training Record Specifications

The Training Record Specification table has been removed from within this Chapter and placed as a separate PDF file. To access the PDF file, go to: https://www.opm.gov/policy-data-oversight/data-analysis-documentation/data-policy-guidance/hr-reporting/ghrr4-4_ch5_training.pdf.

The Training Record Specification table can also be found with the Raw Datasets found on the Data, Analysis & Documentation webpage. To access the webpage, go to:

<https://www.opm.gov/data/Index.aspx?tag=EHRI>.

This version of the training record specification is 4_4.

5.9.1 Pipe Delimited Format

5.9.1.1 Sample Delimited File

A|123456789|1960-01-01|12345678901234567890|AG02|Training Course 1|02|20|2003-10-01|2003-10-11|N|Y|3|01|01|20.5|9.0|02|01|300.00|200.00|1200.00|3020.00|200.00|0|Y

C|234567890|1970-12-31|12345678901234567890|AG02|Sample Training Course 2|01|04|2004-02-01|2004-02-03|2005-02-25|Y|N|1.5|02|02|40|0|02|05|0|0|0|500.00|100.00|50.00|Y

D|345678902|1965-10-30|23456789012345678901|AG02|Sample Training Course 3|01|07|2004-03-15|2004-03-15|N|N|3|02|02|39.50|0.50|02|05|0|0|0|0|0|0|N

5.9.2 XML Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
  <xs:annotation>
    <xs:documentation xml:lang="en">Training XML Schema for EHRI.
      Version 4.0.
      06/08/2007
      All rights reserved.
    </xs:documentation>
  </xs:annotation>
  <xs:element name="TrainingExport" type="TrainingExportType"/>
  <xs:element name="TrainingRecord" type="TrainingRecordType"/>
  <xs:complexType name="TrainingExportType">
    <xs:sequence>
      <xs:element ref="TrainingRecord" maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="fileDate" type="xs:string" use="required"/>
    <xs:attribute name="fileSource" type="xs:string" use="required"/>
  </xs:complexType>
  <xs:complexType name="TrainingRecordType">
    <xs:sequence>
      <xs:element name="RecordAction">
        <xs:annotation>
          <xs:documentation>Indicates action to take with this data
record.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="1"/>
            <xs:enumeration value="A"/>
            <xs:enumeration value="C"/>
            <xs:enumeration value="D"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="Employee" type="EmployeeType"/>
      <xs:element name="TrainingTitle">
        <xs:annotation>
          <xs:documentation>Official title or name of the course or
program completed by the employee.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
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                <xs:maxLength value="100"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="TrainingTypeCode">
        <xs:annotation>
            <xs:documentation>Code for the type of training which has
been completed by the employee.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="4"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="TrainingSubTypeCode">
        <xs:annotation>
            <xs:documentation>Code for the sub type of training which
has been completed by the employee.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="4"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="TrainingStartDate" type="xs:date">
        <xs:annotation>
            <xs:documentation>Start date of the training completed by
the employee.</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="TrainingEndDate" type="xs:date">
        <xs:annotation>
            <xs:documentation>End date for the training completed by
the employee.</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="ContinuedServiceAgreement"
type="ContinuedServiceAgreementType"/>
    <xs:element name="AccreditationInd" type="IndicatorType">
        <xs:annotation>
            <xs:documentation>Indicates if the training course offers
accreditation.</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="TrainingCredit" type="TrainingCreditType"/>
    <xs:element name="TrainingDutyHours" type="xs:decimal">
        <xs:annotation>
            <xs:documentation>Number of employee duty hours the
employee used to complete the training unit.</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="TrainingNonDutyHours" type="xs:decimal">
        <xs:annotation>
            <xs:documentation>Number of employee non-duty hours for the
completed training course.</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="TrainingDeliveryTypeCode">
        <xs:annotation>
            <xs:documentation>Code for the type of training delivery
for the training course completed by the employee.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="4"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>

```

GUIDE TO HUMAN RESOURCES REPORTING

Chapter 5: Training Data Feed

```
<xs:element name="TrainingPurposeTypeCode">
  <xs:annotation>
    <xs:documentation>Code representing the purpose of the
training completed by the employee.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="4"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="TrainingSourceTypeCode">
  <xs:annotation>
    <xs:documentation>Source of the training which has been
completed by the employee.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="4"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="TrainingCost" type="TrainingCostType"/>
<xs:element name="TrainingTravelIndicator" type="IndicatorType">
  <xs:annotation>
    <xs:documentation>Indicates if the employee traveled to
attend the training course.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="EmployeeType">
  <xs:sequence>
    <xs:element name="SSN">
      <xs:annotation>
        <xs:documentation>Person's social security
number.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="9"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="BirthDate" type="xs:date">
      <xs:annotation>
        <xs:documentation>Date on which the person is
born.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="EHRIEmployeeId" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The unique number that EHRI will assign
to an employee to identify employee records within the EHRI.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="20"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="AgencySubelement">
      <xs:annotation>
        <xs:documentation>Agency and, where applicable, the
administrative sub-division (i.e. subelement) in which an a person is
employed.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="4"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:sequence>
</xs:complexType>
</xs:sequence>
</xs:complexType>
```

```

        </xs:restriction>
        </xs:simpleType>
    </xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="ContinuedServiceAgreementType">
    <xs:sequence>
        <xs:element name="AgreementRequiredInd" type="IndicatorType">
            <xs:annotation>
                <xs:documentation>Indicates whether a continued service
agreement is required for the training the employee is taking.</xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="ExpirationDate" type="xs:date" minOccurs="0">
            <xs:annotation>
                <xs:documentation>Date on which the continued service
agreement expires.</xs:documentation>
            </xs:annotation>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="TrainingCostType">
    <xs:sequence>
        <xs:element name="MaterialsCost" type="xs:decimal">
            <xs:annotation>
                <xs:documentation>Cost to the Government for the training
materials used during the training unit completed by the employee. This includes all direct
costs associated with purchasing the training materials used by the employee that is in addition
to the tuition cost. It can include but is not limited to costs of supplies, cost of equipment,
and cost of software used by the student during the training event.</xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="PerDiemCost" type="xs:decimal">
            <xs:annotation>
                <xs:documentation>Cost of the per diem (meal, lodging,
misc. expenses) for training completed by the employee that was paid for by the Federal
Government.</xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="TravelCost" type="xs:decimal">
            <xs:annotation>
                <xs:documentation>Cost for the travel, excluding per diem,
for training completed by the employee that was paid for by the Federal
Government.</xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="TuitionAndFees" type="xs:decimal">
            <xs:annotation>
                <xs:documentation> The cost of the training tuition and fee
for training completed by the employee that was paid for by the Federal
Government.</xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="NonGovernmentContribution" type="xs:decimal">
            <xs:annotation>
                <xs:documentation>Cost contributed by the employee or other
non-government organizations for the training completed by the employee..</xs:documentation>
            </xs:annotation>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="TrainingCreditType">
    <xs:sequence>
        <xs:element name="CreditAmt" type="xs:decimal">
            <xs:annotation>
                <xs:documentation>Amount of academic credit hours or
continued education units earned by the employee for the completed training.</xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="DesignationType">

```

```

        <xs:annotation>
            <xs:documentation>Code for the type of academic credit
hours or continued education units earned by the employee for the completed training
course.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="4"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="CreditType">
        <xs:annotation>
            <xs:documentation>Code representing the type of credit
hours the employee received for the completed training.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="4"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
</xs:sequence>
</xs:complexType>
<xs:simpleType name="IndicatorType">
    <xs:restriction base="xs:string">
        <xs:maxLength value="2"/>
        <xs:enumeration value="Y"/>
        <xs:enumeration value="N"/>
        <xs:enumeration value="NA"/>
    </xs:restriction>
</xs:simpleType>
</xs:schema>
```

5.9.2.1 Sample XML File

```

<?xml version="1.0" encoding="UTF-8" ?>
  <TrainingExport fileDate="2007-03-31" fileSource="GoLearn"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="http://ehr.opm.gov/schemas/training/EHRI Training_v4_0.xsd">
    <TrainingRecord>
      <RecordAction>A</RecordAction>
    <Employee>
      <SSN>123456789</SSN>
      <BirthDate>1960-01-01</BirthDate>
      <EHRIEmployeeId>12345678901234567890</EHRIEmployeeId>
      <AgencySubelement>AG02</AgencySubelement>
    </Employee>
      <TrainingTitle>Sample Training Course</TrainingTitle>
      <TrainingTypeCode>02</TrainingTypeCode>
      <TrainingSubTypeCode>21</TrainingSubTypeCode>
      <TrainingStartDate>2007-03-01</TrainingStartDate>
      <TrainingEndDate>2007-03-09</TrainingEndDate>
    <ContinuedServiceAgreement>
      <AgreementRequiredInd>Y</AgreementRequiredInd>
      <ExpirationDate>2008-02-24</ExpirationDate>
    </ContinuedServiceAgreement>
      <AccreditationInd>Y</AccreditationInd>
    <TrainingCredit>
      <CreditAmt>3</CreditAmt>
      <DesignationType>01</DesignationType>
      <CreditType>01</CreditType>
    </TrainingCredit>
      <TrainingDutyHours>20</TrainingDutyHours>
      <TrainingNonDutyHours>20</TrainingNonDutyHours>
      <TrainingDeliveryTypeCode>02</TrainingDeliveryTypeCode>
      <TrainingPurposeTypeCode>01</TrainingPurposeTypeCode>
      <TrainingSourceTypeCode>01</TrainingSourceTypeCode>
    <TrainingCost>
      <MaterialsCost>300.00</MaterialsCost>
      <PerDiemCost>200.00</PerDiemCost>
      <TravelCost>400.00</TravelCost>
      <TuitionAndFees>3020.00</TuitionAndFees>
      <NonGovernmentContribution>200.00</NonGovernmentContribution>
    </TrainingCost>
      <TrainingTravelIndicator>Y</TrainingTravelIndicator>
    </TrainingRecord>
  </TrainingRecord>
  <RecordAction>C</RecordAction>
  <Employee>
    <SSN>456789999</SSN>
    <BirthDate>1970-11-10</BirthDate>
    <EHRIEmployeeId>45785678901234567890</EHRIEmployeeId>
    <AgencySubelement>AG02</AgencySubelement>
  </Employee>
    <TrainingTitle>Sample Training Course 2</TrainingTitle>
    <TrainingTypeCode>01</TrainingTypeCode>
    <TrainingSubTypeCode>14</TrainingSubTypeCode>
    <TrainingStartDate>2007-02-12</TrainingStartDate>
    <TrainingEndDate>2007-02-16</TrainingEndDate>
  <ContinuedServiceAgreement>
    <AgreementRequiredInd>Y</AgreementRequiredInd>
    <ExpirationDate>2008-02-22</ExpirationDate>
  </ContinuedServiceAgreement>

```

GUIDE TO HUMAN RESOURCES REPORTING

Chapter 5: Training Data Feed

```
<AccreditationInd>Y</AccreditationInd>
- <TrainingCredit>
  <CreditAmt>3</CreditAmt>
  <DesignationType>02</DesignationType>
  <CreditType>02</CreditType>
  </TrainingCredit>
  <TrainingDutyHours>38.5</TrainingDutyHours>
  <TrainingNonDutyHours>2.5</TrainingNonDutyHours>
  <TrainingDeliveryTypeCode>02</TrainingDeliveryTypeCode>
  <TrainingPurposeTypeCode>05</TrainingPurposeTypeCode>
  <TrainingSourceTypeCode>03</TrainingSourceTypeCode>
- <TrainingCost>
  <MaterialsCost>100.00</MaterialsCost>
  <PerDiemCost>0.0</PerDiemCost>
  <TravelCost>0.0</TravelCost>
  <TuitionAndFees>2000.00</TuitionAndFees>
  <NonGovernmentContribution>0.0</NonGovernmentContribution>
  </TrainingCost>
  <TrainingTravelIndicator>N</TrainingTravelIndicator>
  </TrainingRecord>
  </TrainingExport>
```