

*National Student Clearinghouse

Industry Credentials File Formatting Guide

JANUARY 9, 2020



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About the Industry Credentials Project

The intake of industry credential data is a key component of the Industry Certification and Education Performance Data System project being developed by The National Student Clearinghouse in partnership with The National Association of Manufacturers and The Manufacturing Institute.

The goals of the project include:

- Students: Reliable, transparent data on meaningful program outcomes to improve education decision making and accelerating the path to full employment
- Schools: Expanded access to data needed for reporting requirements, informing opportunities for program improvement or expansion
- Employers: Identification of high-performing institutions and quality sources of talent to improve hiring and training decision making
- Certification Providers: Expanded access to employment data to measure the ROI of certification attainment, and access to education data showing student achievement

Introduction

This guide explains how create the file to send industry certificate/credential and other educational achievements data to the Clearinghouse. We encourage you to provide as much information as possible so that data reflects your students' academic accomplishments to for reports.

Please follow these steps preparing your file to be sent to the Clearinghouse:

- Read the guide and all exhibits thoroughly
- Ensure all necessary data is captured accurately
- After your program is written and you have verified the accuracy of the data in the file, submit your file to the Clearinghouse
- Upon receipt of your file, the Clearinghouse will perform two types of validationsstructural and field validations. An email notification will be sent out if your file has error/s, you can also log on to the file submission summary page to view your errors and solutions. If your file requires modifications, you will need to submit a new file.
- Once a file is successfully submitted data will be loaded into our database and available for reports



HOW SHOULD THE DATA BE SUBMITTED?

Once you have sent in your Data Sharing Agreement to the Clearinghouse, a secure FTP account will be setup for you in order to submit credential files.

ESTABLISHING A SECURE FTP ACCOUNT

The National Student Clearinghouse supports secure FTP to safely and securely collect, store, manage, and distribute sensitive information between your organization and the Clearinghouse. You must establish a Clearinghouse secure FTP account at least two business days before you expect to send your first file.

TRANSMITTING FILES

You will use your Clearinghouse secure Industry Credential specific FTP account to transmit your file.

Key features of the secure FTP system are:

- Employs an easy-to-use Web browser interface so users can quickly and securely send and receive files
- Stores files using the U.S. federal encryption standard, FIPS 140-2 validated AES encryption
- Eliminates the need to encrypt or compress data files or enter complicated FTP line commands prior to file transmission
- Allows users with automated environments to use no- or low-cost secure FTP clients to exchange files over encrypted FTPS and SSH connections

Secure FTP supports the following methods of securely exchanging files with the Clearinghouse:

- Web browser interface
- FTP over SSH (SFTP)
- FTP over SSL (FTPS)

The Web browser interface is a quick, easy method of manually transmitting files. For the Web browser interface, follow the instructions below or refer to Secure FTP Help on the Clearinghouse Help Center at http://help.studentclearinghouse.org.



- 1. From a web browser, go to https://ftps.nslc.org
- 2. Enter your Clearinghouse username and password. (You will receive an email with your credential as soon as your agreement is set up with us.)
 - Username is NOT case sensitive; password IS case sensitive
 - Your account will be suspended if you attempt to log in too many times with an incorrect password
 - If you are logging in for the first time, you may be prompted to change your password. The password rules are:
 - i. Minimum length is six characters
 - ii. Must contain at least one alphabetical and one numerical character
 - iii. Must not resemble your username
 - 2. Once you are logged in, select "Upload a File Now" and follow the prompts

For automated environments, please refer to Secure FTP Help on the Clearinghouse Help Center at <u>http://help.studentclearinghouse.org</u>.

Secure FTP File Receipt Confirmation

The Clearinghouse will send a file receipt confirmation to the email address you provided on Service agreement. If you do not receive a confirmation email within 24 hours of transmission, contact us.

Questions?

If you have questions, or need assistance with secure FTP, contact Clearinghouse technical support at secureftp@studentclearinghouse.org.

If you have other questions or need assistance, contact your Clearinghouse Implementation Coordinator.

Data Record Layouts

This section provides the specifications for laying out and formatting data files, in preparation for sending Industry Credential files via secure FTP to the Clearinghouse. It is essential that files are formatted in accordance with the Clearinghouse's specifications so they can be loaded to our database. The following details provide the specifications for the data record layout requirements for submitting files to the Clearinghouse.

File Format

File must be in a pipe delimited file format. File must contain a header record a body record and a trailer record. Please see the tables below for more details. The header record identifies the type of data that is in the body of the file. For Industry Credentials data is important that the value "IC1" appear in the record type field to ensure it is process and merged accurately.



Header Record Layout

All files must have a header, the Clearinghouse cannot process the file without a header.

Example of a Header Record:

IC1|10031103|10000020||||20160601||20160501||CLientFileID100||||

Column for Excel Format	Field Name	Max Length	Req'd	Туре	Comments
A	Record Type	3	R	AN	Value is "IC1"
В	Service Account	15	R	N	An account number that the Clearinghouse will assign with the service agreement. Must be an active* Service account Must be associated with the sending organization in EAM.
					*Your service account will be active once your completed and signed service agreement is submitted to the Clearinghouse.
С	Organization Code	9	R	N	Organization's Unique code , please use Taxpayer ID (no hyphens)
D	Filler 1	0	0	AN	Filler fields for future enhancements to the file
E	Filler 2	0	0	AN	Filler fields for future enhancements to the file
F	Filler 3	15	0	AN	Filler fields for future enhancements to the file
G	Submission Date	8	R	N	Submission Date the file was submitted to the Clearinghouse, must be in YYYYMMDD format and cannot be future date
н	Filler 4	0	0	AN	Filler fields for future enhancements to the file
1	Certification Date	8	R	N	The date as of the data is certified by.
J	Filler 5	0	0	AN	Filler fields for future enhancements to the file
к	Client File ID	50	R	S	File name that the sending organization want to use. Such as Fall 2016 Credentials.
L	Filler 6	0	0	AN	Filler fields for future enhancements to the file

Column for Excel Format	Field Name	Max Length	Req'd	Туре	Comments
Μ	Filler 7	0	0	AN	Filler fields for future enhancements to the file
Ν	Filler 8	0	0	AN	Filler fields for future enhancements to the file
0	Filler 9	0	0	AN	Filler fields for future enhancements to the file

The "Req'd" column in the layouts displays the required codes in this document, which are "R" required, "C" conditional, and "O" optional. Conditional means that in certain circumstances, the field is required. The file layout or indicated exhibits provide additional information.

Detail Record Layout

All files must have at least one detailed record.

Examples of a Detail Records: Total of 53 fields must be present if the fields require the value to be entered. If the field is optional there must be a pipe for that field | in the file for each record. All detail records must start with record type D1.

Example of detail record which contains all required and optional data:

D1|596821111||John|J|Doe|Mr|Johnathan|Joe|CS|19800101|Credential ID 123|W|M|1|2|Northern Virginia Community College|NVCC20170412|1 main St |Annandale|NC|22003|USA|abcx@gmail.com|Northern Virginia Community College|Community College |Welding- Basic Techniques Career Studies Certificate|Certificate|Career Preparation |1|1|SENS Program|Procter Center |1|2|3|4|5|Pass|Basic Welding|Material|Heat|SideEffect|Industry|Pass|20160815|1|Pass|Advanced|20160915|20161014 |20170101|GasWelding|1

Example of detail record which contains all required and some optional data: note for unavailable information there are empty pipes in place.

D1|||John||Smith||||19800101||||||Herndon|VA|20147|USA| Someone@somewhere.com|| Advancement||1|||||||||||||||Pass||20140202||||



Data specification for Detail record:

Column for Excel Format	Field Name	Length	Req' d	Туре	Comments
А	Record Type	2	R	AN	Value for each detail record is "D1"
В	Student SSN	9	0	Ν	Numbers only, no hyphens. Last 4 is acceptable
С	Credential Block	1	0	A	Block Student Credential. Allowable values: "Y" for Yes student's credentials should be blocked and not shared with educational institutions, verification agencies, or other industry credential providers. "N" for No. This will be read as this student's Credentials may be shared. Blank: Same as "NO" credentials are not blocked. If you previously submitted a record and a student request that you not share the credential afterwards, include the student in a file as a 'Y' and we will stop sharing the student's credential.
D	First Name	60	R	AN	Student's first name
E	Middle Name	60	0	AN	Student's middle name or, if full name is not available, middle initial
F	Last Name	60	R	AN	Student's last name (Special Characters - characters other than space, dash (-),hyphen, apostrophe or period
G	Name Suffix	5	0	AN	e.g. III, JR, SR, etc.
н	Previous Last Name	60	0	AN	Student's previous last name.
I	Previous First Name	60	0	AN	Student's previous first name.
J	Students Preferred Name	60	0	AN	Student's preferred name
К	Date of Birth	8	0	N	Student's Date of Birth in YYYYMMDD.



Column for Excel Format	Field Name	Length	Req' d	Туре	Comments
L	Credential Engine Identifier	40	0	AN	Credential Engine Identifier number is the identifier used to register with the credential engine. Example: CTID Number
М	Race and Ethnicity	2	0	A	Please select a Valid Value: The Race/Ethnicity code/descriptions are: A Nonresident Alien AN Asian B Black, Non-Hispanic IA American Indian/Alaskan Native NP Native Asian / Pacific Islander H Hispanic HP Native Hawaiian or Other Pacific Islander WWhite, Non-Hispanic
Ν	Gender	1	0	A	Student Gender, Valid Values: M = Male F = Female U= Unknown/Not Specified
0	Military Status	1	0	N	Provide Military Status, Valid value are: 0 = None 1 = Active Duty 2 = VeteranP3 = Reserves/Guard
Ρ	Institution Type	1	0	Ν	Type of the School the individual attended to receive training or instruction related to certificate, Valid Values are: 0 = Unknown 1 = Secondary 2 = Post-Secondary
Q	Institution Name	150	0	S	Name of Institute the individual attended to receive training or instruction related to the certificate
R	Industry Credential Provider ID	20	0	AN	Industry Credential provider identifier. This field can be used to indicate a student or credential level identifier that is used by your organization.



Column for Excel Format	Field Name	Length	Req' d	Туре	Comments
S	Street Line 1	40	0	S	Street Address of the Student
Т	City	30	0	AN	City Address of the student (no special characters other than space, hyphen, apostrophe or period.)
U	State	2	0	A	State abbreviation of the Student's address, if foreign please enter "FO"
V	Zip	15	0	AN	Zip Code of the student's address
W	Country	80	0	AN	Country of the student's address (no special characters other than spaces.)
х	Personal Email Address	255	0	S	Personal Email address of the Student No Pipe allowed
Y	Training Institution	150	0	S	Name/s of the institution(s) where related education and training took place.
Z	Credential Organization Type	60	R	AN	The type of organization that creates and issues one or more credentials such as university, community college, industry/professional certification organization, or government agency. (no special characters other than spaces.)
AA	Credential/Certification Name	80	R	S	Title or Name of the Credential/ Certification (All special characters other than pipes is allowed)
AB	Credential Type	20 if free	R	AN	The type of credential issued by the credentialing organization such as degree, certificate, certification or license.
AC	Purpose of the credential	150	R	AN	The intended purpose(s) or use(s) the credential including: General education, Career preparation and advancement, Preparation for further education and credentialing. (no special characters other than
AD	Certification endorsed curriculum/Program	1	0	N	The certification obtained is endorsed 1=Yes 2=No



Column for Excel Format	Field Name	Length	Req' d	Туре	Comments
AE	Certificate Endorsing Industry	1	0	Ν	The credential provider who will be endorsing the certification. (AWS, MSSC, NIIMS or Other Valid Values 1 = AWS 2 = NIMS 3 = MSSC 4 = Other
AF	Certified Program	60	0	S	Certified program ex AWS has SENS program
AG	Credential/Certification Test Provider	60	0	S	Credential/Certification test provider, it can be organization facility or Online test site website address
АН	Practical Test-1	60	0	S	A practical test includes experiential learning, such as, hands-on application of welding skills for example. The student may take up to 5 Practical tests in order to attain a given certification.
AI	Practical Test-2	60	0	S	
AJ	Practical Test-3	60	0	S	
AK	Practical Test-4	60	0	S	
AL	Practical Test-5	60	0	S	
AM	Practical Test Score	20	0	AN	Score or Level of Score that the student achieved (Pass/Fail/Completed)
AN	Knowledge Test-1	60	0	S	Knowledge tests are typically written tests that assesses student knowledge of the subject matter related to the requirements for the certification program. The student may take up to 5 knowledge based tests in order to attain a given certification.
AO	Knowledge Test-2	60	0	S	
AP	Knowledge Test-3	60	0	S	
AQ	Knowledge Test-4	60	0	S	
AR	Knowledge Test-5	60	0	S	



Column for Excel Format	Field Name	Length	Req' d	Туре	Comments
AS	Knowledge Test Score	20	0	AN	Score or Level of Score that the student achieved (Pass/Fail/Completed)
АТ	Credential Test Date	8	R	Ν	Test date, must be in YYYYMMDD format (The day the student has taken a test and not the date the certification has been awarded
AU	Credential Status	1	R	Ν	1 – pass, completed 2 - fail
AV	Score/Score Level	20	R	AN	Score or Level of Score that the student achieved
AW	Assessment of Learning	40	0	S	Level of learning for example (level I, II, III, or Advanced, Beginning, etc.)
AX	Credential Award Date	8	R	Ν	Date the Credential was awarded must be in YYYYMMDD format
AY	Expiration Date	8	0	N	Date the credential will expire, must be in YYYYMMDD format.
AZ	Renewal Date	8	0	N	Date the credential must be renewed by
ВА	Apprenticeship	20	0	AN	Name of apprenticeship Completed (no special characters other than spaces.)
BB	Level of Apprenticeship	1	0	N	Level of any apprenticeship



Trailer Record Layout

All files must have a trailer, The Clearinghouse cannot process the file without a trailer.

Example of a Trailer Record: Total of 3 fields must be present if the fields require the value to be entered. If the field is optional there must be a pipe for that field | in the file for each record. Trailer records must start with record type T1.

T1|10|

Column for Excel Format	Field Name	Required	Max Length	Data Type	Comments
А	Record Type	R	5	AN	Value must be "T1"
В	Total Record Count	R	10		Total count equals the number of student detail records plus two (the header and trailer records are included in the total)
С	Filler 1	0	0		Filler fields for future enhancements to the file

Other noteworthy information on the trailer record:

- Trailer record should be the last row in the file, no blank spaces, etc.
- Alpha = Alphabetic characters only
- Numeric = Numbers only
- Alphanumeric = Alphabetic characters and numbers
- String = Alphabetic characters, numbers, and special characters, such as the hyphen, underscore, ampersand, exclamation point etc.
- A valid value must be provided for all required fields, **please do not enter the word "Null" as a value.**



Sample Industry Credential Pipe Delimited File:

IC1 10031103 100000020 | | | 20160601 | 20160501 | FallFile | | | D1|596821111||John|J|Doe|Mr|Johnathan|Joe|CS|19800101|Credential ID 123 W M 1 2 Northern Virginia Community College NVCC20170412 1 main St Annandale NC 22003 USA abcx@gmail.com Northern Virginia Community College | Community College | Welding- Basic Techniques Career Studies Certificate | Certificate | Career Preparation |1|1|SENS Program | Procter Center 1|2|3|4|5|Pass|Basic Welding | Material | Heat | SideEffect | Industry | Pass | 20160815 | 1 | Pass | Advanced | 20160915 | 201 61014 | 20170101 | GasWelding | 1 D1|596821111||John|J|Doe|Mr|Johnathan|Joe|CS|19800101|Credential ID 123 W M 1 2 Northern Virginia Community College NVCC20170412 1 main St Annandale NC 22003 USA abcx@gmail.com Northern Virginia Community College | Community College | Welding- Basic Techniques Career Studies Certificate | Certificate | Career Preparation |1|1|SENS Program | Procter Center 1|2|3|4|5|Pass|Basic Welding | Material | Heat | SideEffect | Industry | Pass | 20160815 | 1 | Pass | Advanced | 20160915 | 201 61014 | 20170101 | GasWelding | 1 T1|4

If you have no data for an optional field or the filler fields, you must insert a pipe to replace the null content. Many of the optional fields in the file are critical to better reporting outcomes. <u>We encourage you to submit optional fields to support your goal.</u>

RESOURCES

To access FTP Support click here: http://secureftp.helpdocsonline.com/home

Need more support? Email the **Industry Credentials team** industrycredentials@studentclearinghouse.org