

# Data Dictionary

## O\*NET<sup>®</sup> 18.0 Database

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## Introduction

This document provides a reference to the files available in the O\*NET 18.0 Database. It serves as documentation for systems analysts, developers, and researchers who plan to use the O\*NET 18.0 Database as a basis for developing other products, software, or system applications.

Each file in the O\*NET 18.0 Database contains data that can be used to create a database structure with a database management system (DBMS) of choice. The files do NOT represent a database structure, but provide as much content as possible for the database developer to select columns for database field and table creation. The O\*NET-SOC Code is a common key/link between the various data elements for developers wishing to create a relational database structure. Additional relationships are depicted in **Figure 1 – Relationships of O\*NET Domain Files to Look-up and Other Files**. The data in each file are contained in tab-delimited text fields with column headings in the first row of the file.

Each file in the O\*NET 18.0 Database is described in this document. A list of columns is included, showing the column name used in the file, its data type, and a description of the column content. (Note: The column names provided are intended to be descriptive of the file contents, and are not suggested or required names to be used in constructing database tables.)

## File Structure

A description and data example for each file are included. In addition, the File Structure Changes section for each table provides the reader a detailed list of changes that have been made to the structure of the data file since the release of the O\*NET 4.0 Database.

The following data types are used in this document:

Character:	fixed-length character string
Character Varying:	varying-length string
Integer:	whole number
Float:	floating point number

The data types specified in the file structures are ANSI (American National Standards Institute) compliant beginning with the release of O\*NET Database 10.0. Floating point numbers are represented as FLOAT (5,2) which means 5 total places are in the number with the possibility of 3 before the decimal point and 2 behind the decimal point.

**Note:** Users should note that these data types refer to the stored values. In generating tab-delimited text files, null values are represented by “n/a”. Some variations of field type assignments may be required of users to correctly import the files. These variations are dependent on the application(s) used.

## File Relationships

The file descriptions are organized into three distinct groupings – look-up files, domain files, and other files. The look-up files are described first to provide a frame of reference for the other data files that are included in the database release. They include the content model that identifies the most important types of information about work and integrates them into a theoretically and empirically sound system.

The domain files contain descriptors of work and worker characteristics including the various ratings data and occupational metadata that have been obtained through the research efforts of O\*NET and its partners.

The other files provide additional information that supplements the look-up and domain files but does not fit into either of those categories. For example, the Survey Booklet Locations file contains the content model elements that have corresponding survey item numbers in the survey booklet.

**Figure 1 - Relationships of O\*NET Domain Files to Look-up and Other Files**, provides a visual display of the relationship between the domain files and the look-up and other files that are distributed with O\*NET 18.0 Database Release. To utilize the table, select a domain file name and follow the row across to see the associated look-up and other files. The data element names that provide the linkage between the two files are provided in each intersection cell. The empty intersection cells indicate that there is no relationship between the look-up and domain files.

**Figure 2 - Relationships of Other Files to O\*NET Look-up Files** provides a visual display of the relationships between the look-up files and other files that are distributed with O\*NET Database Release 18.0. In the same manner as described above, select a file from the left column and follow the row across to see the associated reference files. The data element name that provides the linkage between the two files is provided in each intersection cell. The empty intersection cells indicate that there is no relationship between the reference and these other files.

**Figure 1 - Relationships of O\*NET Domain Files to Look-up and Other Files**

Domain Files	Look-up Files				Other Files						
	Content Model Reference	Job Zone Reference	Occupation Data	Scales Reference	Education, Training, and Experience Categories	Green Occupations	Level Scale Anchors	Occupation Level Metadata	Survey Booklet Locations	Task Categories	Work Context Categories
Abilities	Element ID		ONET-SOC Code	Scale ID			Element ID	ONET-SOC Code	Element ID / Scale ID		
Education, Training, and Experience	Element ID		ONET-SOC Code	Scale ID	Element ID			ONET-SOC Code	Element ID / Scale ID		
Green Task Statements			ONET-SOC Code			ONET-SOC Code					
Interests	Element ID		ONET-SOC Code	Scale ID			Element ID	ONET-SOC Code			
Job Zones		Job Zone	ONET-SOC Code					ONET-SOC Code			
Knowledge	Element ID		ONET-SOC Code	Scale ID			Element ID	ONET-SOC Code	Element ID / Scale ID		
Skills	Element ID		ONET-SOC Code	Scale ID			Element ID	ONET-SOC Code	Element ID / Scale ID		
Task Ratings			ONET-SOC Code	Scale ID				ONET-SOC Code		Category	
Task Statements			ONET-SOC Code					ONET-SOC Code			
Work Activities	Element ID		ONET-SOC Code	Scale ID			Element ID	ONET-SOC Code	Element ID / Scale ID		
Work Context	Element ID		ONET-SOC Code	Scale ID				ONET-SOC Code	Element ID / Scale ID		Element ID
Work Styles	Element ID		ONET-SOC Code	Scale ID			Element ID	ONET-SOC Code	Element ID / Scale ID		
Work Values	Element ID		ONET-SOC Code	Scale ID			Element ID	ONET-SOC Code			

**Figure 2 - Relationships of Other Files to O\*NET Look-up Files**

<b>Look-up Files</b>	<b>Content Model Reference</b>	<b>Job Zone Reference</b>	<b>Occupation Data</b>	<b>Scales Reference</b>
<b>Other Files</b>				
<b>Education, Training, and Experience Categories</b>	Element ID			Scale ID
<b>Green Occupations</b>			ONET-SOC Code	
<b>Level Scale Anchors</b>	Element ID			Scale ID
<b>Occupation Level Metadata</b>			ONET-SOC Code	
<b>Survey Booklet Locations</b>	Element ID			Scale ID
<b>Task Categories</b>				Scale ID
<b>Work Context Categories</b>	Element ID			Scale ID

## Using the O\*NET Data and Metadata

Metadata is provided in the O\*NET database to provide users with information that will help evaluate the quality and valid use of the data. The needs of individual users of the O\*NET database will determine which metadata items are utilized.

To facilitate that use, cells that are shaded or contain **bold** text denote O\*NET metadata versus O\*NET data. It's assumed that the needs of many users will be met by using O\*NET data along with the O\*NET metadata that provides the recommended "flags" for "Not Relevant" or "Recommend Suppress". In this case, all unshaded rows in the illustrated file structure should be utilized, including those containing the bold text. Those interested in a more detailed study or use of the database can choose to utilize any or all of the provided metadata items. Metadata is provided at both the item level and at the occupation level. Keys to this information are provided in the Appendices.



# **Look-up File Descriptions**

## Content Model Reference

**Purpose:** Provide O\*NET Content Model elements.

**File Name:** Content Model Reference.txt

### Structure and Description:

Column	Type	Column Content
Element ID	CHARACTER VARYING(20)	Content Model Outline Position
Element Name	CHARACTER VARYING(150)	Content Model Element Name
Description	CHARACTER VARYING(1500)	Content Model Element Description

This file contains the Content Model elements and descriptions. It is displayed in three tab delimited fields with the columns named Element ID, Element Name, and Description. The three fields are represented by one row. There are a total of 571 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0 - 8.0	No structure changes
9.0	File name changed from onet_content_model_reference.txt to Content Model Reference.txt
10.0 - 18.0	No structure changes

### Data Example – Content Model Reference:

Element ID	Element Name	Description
1	Worker Characteristics	Worker Characteristics
1.A	Abilities	Enduring attributes of the individual that influence performance
1.A.1.a	Verbal Abilities	Abilities that influence the acquisition and application of verbal information in problem solving
1.A.1.a.1	Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.
1.A.1.a.2	Written Comprehension	The ability to read and understand information and ideas presented in writing.

## Job Zone Reference

**Purpose:** Provide Job Zone data (developed to help transition DOT's measures of Specific Vocational Preparation (SVP) to O\*NET's measure of experience, education, and job training).

**File Name:** Job Zone Reference.txt

### Structure and Description:

Column	Type	Column Content
Job Zone	INTEGER(1)	Job Zone number
Name	CHARACTER VARYING(50)	Job Zone name/zone
Experience	CHARACTER VARYING(300)	Job Zone experience requirements
Education	CHARACTER VARYING(500)	Job Zone educational requirements
Job Training	CHARACTER VARYING(300)	Job Zone training requirements
Examples	CHARACTER VARYING(500)	Job Zone examples
SVP Range	CHARACTER VARYING(25)	Specific vocational preparation range

This file contains the Job Zone data in seven tab delimited fields with the columns named Job Zone, Name, Experience, Education, Job Training, Examples, and SVP Range. The seven fields are represented by one row. There are 5 rows of data in this file representing each Job Zone.

### File Structure Changes:

Release Number	Description of Change
5.0	No structure changes
5.1	Number column renamed Job Zone
6.0 – 8.0	No structure changes
9.0	File name changed from job_zone_reference.txt to Job Zone Reference.txt
10.0 - 18.0	No structure changes

**Data Example – Job Zone Reference:**

<b>Job Zone</b>	<b>Name</b>	<b>Experience</b>	<b>Education</b>	<b>Job Training</b>	<b>Examples</b>	<b>SVP Range</b>
1	Job Zone One: Little or No Preparation Needed	Little or no previous work-related skill, knowledge, or experience is needed for these occupations. For example, a person can become a waiter or waitress even if he/she has never worked before.	Some of these occupations may require a high school diploma or GED certificate.	Employees in these occupations need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.	These occupations involve following instructions and helping others. Examples include taxi drivers, amusement and recreation attendants, counter and rental clerks, construction laborers, continuous mining machine operators, and waiters/waitresses.	(Below 4.0)
2	Job Zone Two: Some Preparation Needed	Some previous work-related skill, knowledge, or experience is usually needed. For example, a teller would benefit from experience working directly with the public.	These occupations usually require a high school diploma.	Employees in these occupations need anywhere from a few months to one year of working with experienced employees. A recognized apprenticeship program may be associated with these occupations.	These occupations often involve using your knowledge and skills to help others. Examples include sheet metal workers, forest fire fighters, customer service representatives, physical therapist aides, salespersons (retail), and tellers.	(4.0 to < 6.0)
3	Job Zone Three: Medium Preparation Needed	Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.	Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree.	Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers. A recognized apprenticeship program may be associated with these occupations.	These occupations usually involve using communication and organizational skills to coordinate, supervise, manage, or train others to accomplish goals. Examples include food service managers, electricians, agricultural technicians, legal secretaries, interviewers, and insurance sales agents.	(6.0 to < 7.0)

## Occupation Data

**Purpose:** Provide O\*NET-SOC Codes, titles, and definitions.

**File Name:** Occupation Data.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Title	CHARACTER VARYING(150)	O*NET-SOC Title
Description	CHARACTER VARYING(1000)	O*NET-SOC Description

This file contains each O\*NET SOC code, occupational title, and definition/description. They are displayed in three tab delimited fields with the columns named O\*NET-SOC Code, Title and Description. The three fields are represented by one row. There are a total of 1,110 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0 – 8.0	No structure changes
9.0	File name changed from onetsoc_data.txt to Occupation Data.txt
10.0 - 18.0	No structure changes

**Data Example – Occupation Data:**

<b>O*NET-SOC Code</b>	<b>Title</b>	<b>Description</b>
11-1011.00	Chief Executives	Determine and formulate policies and provide overall direction of companies or private and public sector organizations within guidelines set up by a board of directors or similar governing body. Plan, direct, or coordinate operational activities at the highest level of management with the help of subordinate executives and staff managers.
11-9039.02	Fitness and Wellness Coordinators	Manage or coordinate fitness and wellness programs and services. Manage and train staff of wellness specialists, health educators, or fitness instructors.
19-1012.00	Food Scientists and Technologists	Use chemistry, microbiology, engineering, and other sciences to study the principles underlying the processing and deterioration of foods; analyze food content to determine levels of vitamins, fat, sugar, and protein; discover new food sources; research ways to make processed foods safe, palatable, and healthful; and apply food science knowledge to determine best ways to process, package, preserve, store, and distribute food.
21-1091.00	Health Educators	Provide and manage health education programs that help individuals, families, and their communities maximize and maintain healthy lifestyles. Collect and analyze data to identify community needs prior to planning, implementing, monitoring, and evaluating programs designed to encourage healthy lifestyles, policies, and environments. May serve as a resource to assist individuals, other healthcare workers, or the community, and may administer fiscal resources for health education programs.
29-1151.00	Nurse Anesthetists	Administer anesthesia, monitor patient's vital signs, and oversee patient recovery from anesthesia. May assist anesthesiologists, surgeons, other physicians, or dentists. Must be registered nurses who have specialized graduate education.
43-4151.00	Order Clerks	Receive and process incoming orders for materials, merchandise, classified ads, or services such as repairs, installations, or rental of facilities. Generally receives orders via mail, phone, fax, or other electronic means. Duties include informing customers of receipt, prices, shipping dates, and delays; preparing contracts; and handling complaints.

## Scales Reference

**Purpose:** Provide a reference to the scale names and values.

**File Name:** Scales Reference.txt

### Structure and Description:

Column	Type	Column Content
Scale ID	CHARACTER VARYING(3)	Scale ID
Scale Name	CHARACTER VARYING(50)	Scale Name
Minimum	INTEGER(1)	Scale Minimum
Maximum	INTEGER(3)	Scale Maximum

This file contains the Scale information by which the raw values are measured. It is displayed in four tab delimited fields with the columns named Scale ID, Scale Name, Minimum, and Maximum. The four fields are represented by one row. There are a total of 29 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0	Scale ID data type changed from CHAR(2) to VARCHAR2(3)
5.1 – 8.0	No structure changes
9.0	File name changed from scales_reference.txt to Scales Reference.txt
10.0 - 18.0	No structure changes

### Data Example – Scales Reference:

Scale ID	Scale Name	Minimum	Maximum
CT	Context	1	3
CTP	Context (Categories 1-3)	0	100
CX	Context	1	5
CXP	Context (Categories 1-5)	0	100
IM	Importance	1	5
LV	Level	0	7
OJ	On-The-Job Training (Categories 1-9)	0	100
PT	On-Site Or In-Plant Training (Categories 1-9)	0	100
RL	Required Level Of Education (Categories 1-12)	0	100
RW	Related Work Experience (Categories 1-11)	0	100

# **Domain File Descriptions**



## Abilities

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Ability ratings.

**File Name:** Abilities.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Element ID	CHARACTER VARYING(20)	Ability Outline Position in the Content Model Structure
Element Name	CHARACTER VARYING(150)	Ability Name
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for rating
Data Value	FLOAT(5,2)	Rating associated with the O*NET-SOC occupation
N	INTEGER(4)	Sample Size
Standard Error	FLOAT(5,2)	Standard Error
Lower CI Bound	FLOAT(5,2)	Lower 95% Confidence Interval Bound
Upper CI Bound	FLOAT(5,2)	Upper 95% Confidence Interval Bound
<b>Recommend Suppress</b>	<b>CHARACTER(1)</b>	<b>Low Precision Indicator (Y=yes, N=no)</b>
<b>Not Relevant</b>	<b>CHARACTER(1)</b>	<b>Not Relevant for the Occupation (Y=yes, N=no)</b>
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the Content Model Ability data associated with each O\*NET-SOC occupation. It is displayed in 13 tab delimited fields and identified using the column names provided above. Item rating level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Not Relevant, Date and Domain Source. Refer to **Appendix 1 - Item Rating Level Statistics - Analyst** for additional information on these items. The 13 fields are represented by one row. There are a total of 95,992 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.0	Scale ID data type changed from CHAR(2) to VARCHAR2(3)
5.0	Data Value data type changed from NUMBER(9,6) to NUMBER(5,2)
5.1	Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, and Not Relevant
5.1	Source column was renamed to Domain Source
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	Recommend Suppress and Not Relevant data types changed from VARCHAR2(1) to CHARACTER(1)
9.0	The file name was changed from Ability.txt to Abilities.txt

**Data Example - Abilities:**

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	N	Standard Error	Lower CI Bound	Upper CI Bound	Recommend Summary	Not Relevant	Date	Domain Source
11-1011.03	1.A.1.a.1	Oral Comprehension	IM	4.00	8	0.00	4.00	4.00	N	n/a	07/2013	Analyst
11-1011.03	1.A.1.a.1	Oral Comprehension	LV	4.50	8	0.19	4.13	4.87	N	N	07/2013	Analyst
11-1011.03	1.A.1.a.2	Written Comprehension	IM	4.00	8	0.00	4.00	4.00	N	n/a	07/2013	Analyst
11-1011.03	1.A.1.a.2	Written Comprehension	LV	4.38	8	0.18	4.02	4.73	N	N	07/2013	Analyst
11-1011.03	1.A.1.a.3	Oral Expression	IM	4.00	8	0.00	4.00	4.00	N	n/a	07/2013	Analyst
11-1011.03	1.A.1.a.3	Oral Expression	LV	4.62	8	0.18	4.27	4.98	N	N	07/2013	Analyst
11-1011.03	1.A.1.a.4	Written Expression	IM	3.88	8	0.13	3.63	4.12	N	n/a	07/2013	Analyst
11-1011.03	1.A.1.a.4	Written Expression	LV	4.38	8	0.18	4.02	4.73	N	N	07/2013	Analyst

## Education, Training, and Experience

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Education, Training, and Experience ratings.

**File Name:** Education, Training, and Experience.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Element ID	CHARACTER VARYING(20)	Outline Position in the Content Model Structure
Element Name	CHARACTER VARYING(150)	Name associated with Education, Training and Experience
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for rating
Category	INTEGER(3)	Percent frequency category
Data Value	FLOAT(5,2)	Rating associated with the O*NET-SOC occupation
N	INTEGER(4)	Sample Size
Standard Error	FLOAT(5,2)	Standard Error
Lower CI Bound	FLOAT(5,2)	Lower 95% Confidence Interval Bound
Upper CI Bound	FLOAT(5,2)	Upper 95% Confidence Interval Bound
<b>Recommend Suppress</b>	<b>CHARACTER(1)</b>	<b>Low Precision Indicator (Y=yes, N=no)</b>
Date	CHARACTER(7)	Date when the data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the percent frequency data associated with Education, Training and Experience Content Model elements. It is displayed in 13 tab delimited fields and identified using the column names provided above. Item rating level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Date and Domain Source. Refer to **Appendix 2 - Item Rating Level Statistics - Incumbent** for additional information on these items. The 13 fields are represented by one row. There are a total of 37,679 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0	Added as a new file
5.1	Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, and Recommend Suppress
5.1	Source column renamed Domain Source
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	Recommend Suppress data type changed from VARCHAR2(1) to CHARACTER(1)
9.0	File name changed from EducTrainExp.txt to Education, Training, and Experience.txt
10.0 - 18.0	No structure changes

**Data Example – Education, Training and Experience:**

O*NET-SOC Code	Element ID	Element Name	Scale ID	Category	Data Value	N	Standard Error	Lower CI Bound	Upper CI Bound	Recommend Suppress	Date	Domain Source
53-2031.00	2.D.1	Required Level of Education	RL	1	0.00	26	0.00	n/a	n/a	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	2	30.17	26	9.60	14.46	52.48	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	3	11.24	26	8.34	2.21	41.46	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	4	32.71	26	11.12	14.65	57.91	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	5	25.88	26	11.62	9.12	54.85	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	6	0.00	26	0.00	n/a	n/a	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	7	0.00	26	0.00	n/a	n/a	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	8	0.00	26	0.00	n/a	n/a	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	9	0.00	26	0.00	n/a	n/a	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	10	0.00	26	0.00	n/a	n/a	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	11	0.00	26	0.00	n/a	n/a	N	07/2012	Incumbent
53-2031.00	2.D.1	Required Level of Education	RL	12	0.00	26	0.00	n/a	n/a	N	07/2012	Incumbent

## Green Task Statements

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to green tasks associated with the occupation.

**File Name:** Green Task Statements.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Task ID	INTEGER(8)	Identifies each Task containing data ratings
Task	CHARACTER VARYING(1000)	Task statement associated with an occupation
Green Task Type	CHARACTER VARYING(40)	Green Task Type
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the green tasks associated with O\*NET-SOC occupations. It is displayed in 6 tab delimited fields using the column names above. The 6 fields are represented by one row. There are a total of 1,373 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
16.0	Added as a new file
17.0 - 18.0	No structure changes

**Data Example – Green Task Statements:**

O*NET-SOC Code	Task ID	Task	Task Type	Date	Domain Source
11-9021.00	19522	Inspect or review projects to monitor compliance with environmental regulations.	New Green Task	07/2013	Occupational Expert
11-9021.00	19520	Develop or implement environmental protection programs.	New Green Task	07/2013	Occupational Expert
11-9021.00	19523	Perform or contract others to perform prebuilding assessments, such as conceptual cost estimating, rough order of magnitude estimating, feasibility, or energy efficiency, environmental, and sustainability assessments.	New Green Task	07/2013	Occupational Expert
11-9021.00	19521	Implement training programs on environmentally responsible building topics to update employee skills and knowledge.	New Green Task	07/2013	Occupational Expert
11-9021.00	19524	Procure Leadership in Energy Efficient Design (LEED) or other environmentally certified professionals to ensure responsible design and building activities or to achieve favorable LEED ratings for building projects.	New Green Task	07/2013	Occupational Expert
11-9021.00	19519	Develop construction budgets that compare green and non-green construction alternatives in terms of short-term costs, long-term costs, or environmental impacts.	New Green Task	07/2013	Occupational Expert
11-9021.00	19518	Apply green building strategies to reduce energy costs or minimize carbon output or other sources of harm to the environment.	New Green Task	07/2013	Occupational Expert

## Interests

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Interest ratings.

**File Name:** Interests.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Element ID	CHARACTER VARYING(20)	Interest Outline Position in the Content Model Structure
Element Name	CHARACTER VARYING(150)	Interest Name
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for rating
Data Value	FLOAT(5,2)	Rating associated with the O*NET-SOC occupation
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the Content Model Interest data associated with each O\*NET-SOC occupation. It is displayed in seven tab delimited fields with the columns named O\*NET-SOC Code, Element ID, Element Name, Scale ID, Data Value, Date, and Domain Source. The seven fields are represented by one row. There are a total of 8,766 rows of data in this file.

Note: Interest ratings are presented as two scales: OI reports the RIASEC level of each interest and IH presents “highpoint codes”, the numbers of the RIASEC scales for the first, second and/or third highest ratings. To better understand the scales, refer to the report: [The Second Generation Occupational Interest Profiles for the O\\*NET System: Summary](#), on the O\*NET Resource Center site (Home > Products > Research and Technical Reports).

The high-point values represent the following elements:

- 0.00 = No high point available
- 1.00 = Realistic
- 2.00 = Investigative
- 3.00 = Artistic
- 4.00 = Social
- 5.00 = Enterprising
- 6.00 = Conventional

### File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.0	Scale ID data changed from CHAR(2) to VARCHAR2(3)
5.0	Data Value data type changed from NUMBER(9,6) to NUMBER(5,2)
5.1	Source column renamed Domain Source

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<b>Release Number</b>	<b>Description of Change</b>
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	File name changed from Interest.txt to Interests.txt
10.0 - 18.0	No structure changes



**Data Example - Interests:**

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Domain Source
11-1011.03	1.B.1.a	Realistic	OI	1.00	07/2013	Analyst
11-1011.03	1.B.1.b	Investigative	OI	4.33	07/2013	Analyst
11-1011.03	1.B.1.c	Artistic	OI	2.67	07/2013	Analyst
11-1011.03	1.B.1.d	Social	OI	2.33	07/2013	Analyst
11-1011.03	1.B.1.e	Enterprising	OI	7.00	07/2013	Analyst
11-1011.03	1.B.1.f	Conventional	OI	4.33	07/2013	Analyst
11-1011.03	1.B.1.g	First Interest High-Point	IH	5.00	07/2013	Analyst
11-1011.03	1.B.1.h	Second Interest High-Point	IH	6.00	07/2013	Analyst
11-1011.03	1.B.1.i	Third Interest High-Point	IH	2.00	07/2013	Analyst
15-1143.00	1.B.1.a	Realistic	OI	4.00	07/2013	Analyst
15-1143.00	1.B.1.b	Investigative	OI	6.00	07/2013	Analyst
15-1143.00	1.B.1.c	Artistic	OI	2.33	07/2013	Analyst
15-1143.00	1.B.1.d	Social	OI	2.00	07/2013	Analyst
15-1143.00	1.B.1.e	Enterprising	OI	5.33	07/2013	Analyst
15-1143.00	1.B.1.f	Conventional	OI	6.00	07/2013	Analyst
15-1143.00	1.B.1.g	First Interest High-Point	IH	2.00	07/2013	Analyst
15-1143.00	1.B.1.h	Second Interest High-Point	IH	6.00	07/2013	Analyst
15-1143.00	1.B.1.i	Third Interest High-Point	IH	5.00	07/2013	Analyst

## Job Zones

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Job Zone ratings.

**File Name:** Job Zones.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Job Zone	INTEGER(1)	Job Zone Number
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains each O\*NET-SOC code and its corresponding job zone number. Each record is displayed in four tab delimited fields with the columns named O\*NET-SOC Code, Job Zone, Date, and Domain Source. The four fields are represented by one row. There are a total of 924 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0	No structure changes
5.1	Date and Domain Source added
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	File name changed from onetsoc_job_zones.txt to Job Zones.txt
10.0 - 18.0	No structure changes

### Data Example – Job Zones:

O*NET-SOC Code	Job Zone	Date	Domain Source
11-1011.03	5	07/2013	Analyst
11-3031.01	5	07/2012	Analyst
11-3051.00	4	07/2013	Analyst
13-2082.00	3	07/2013	Analyst
29-2051.00	2	07/2013	Analyst
35-2012.00	2	07/2012	Analyst
51-4081.00	2	07/2013	Analyst
51-4111.00	3	07/2012	Analyst

## Knowledge

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Knowledge ratings.

**File Name:** Knowledge.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Element ID	CHARACTER VARYING(20)	Knowledge Outline Position in the Content Model Structure
Element Name	CHARACTER VARYING(150)	Knowledge Name
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for rating
Data Value	FLOAT(5,2)	Rating associated with the O*NET-SOC occupation
N	INTEGER(4)	Sample Size
Standard Error	FLOAT(5,2)	Standard Error
Lower CI Bound	FLOAT(5,2)	Lower 95% Confidence Interval Bound
Upper CI Bound	FLOAT(5,2)	Upper 95% Confidence Interval Bound
<b>Recommend Suppress</b>	<b>CHARACTER(1)</b>	<b>Low Precision Indicator (Y=yes, N=no)</b>
<b>Not Relevant</b>	<b>CHARACTER(1)</b>	<b>Not Relevant for the Occupation (Y=yes, N=no)</b>
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the Content Model Knowledge data associated with each O\*NET-SOC occupation. It is displayed in 13 tab delimited fields and identified using column names provided above. Item rating level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Not Relevant, Date, and Domain Source. Refer to **Appendix 2 - Item Rating Level Statistics - Incumbent** for additional information on these items. The 13 fields are represented by one row. There are a total of 60,918 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.0	Scale ID data changed from CHAR(2) to VARCHAR2(3)
5.0	Data Value data type changed from NUMBER(9,6) to NUMBER(5,2)
5.1	Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, and Not Relevant
5.1	Source column renamed Domain Source
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	Recommend Suppress and Not Relevant data types changed from VARCHAR2(1) to CHARACTER(1)
10.0 - 18.0	No structure changes

**Data Example - Knowledge:**

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	N	Standard Error	Lower CI Bound	Upper CI Bound	Recommend Suppress	Not Relevant	Date	Domain Source
11-1011.03	2.C.8.b	Law and Government	IM	2.88	26	n/a	n/a	n/a	n/a	n/a	07/2013	Occupational Expert
11-1011.03	2.C.8.b	Law and Government	LV	3.08	25	n/a	n/a	n/a	n/a	N	07/2013	Occupational Expert
11-1011.03	2.C.9.a	Telecommunications	IM	1.58	26	n/a	n/a	n/a	n/a	n/a	07/2013	Occupational Expert
11-1011.03	2.C.9.a	Telecommunications	LV	0.81	26	n/a	n/a	n/a	n/a	N	07/2013	Occupational Expert
11-1011.03	2.C.9.b	Communications and Media	IM	2.84	25	n/a	n/a	n/a	n/a	n/a	07/2013	Occupational Expert
11-1011.03	2.C.9.b	Communications and Media	LV	2.92	25	n/a	n/a	n/a	n/a	N	07/2013	Occupational Expert
11-1011.03	2.C.10	Transportation	IM	2.42	26	n/a	n/a	n/a	n/a	n/a	07/2013	Occupational Expert
11-1011.03	2.C.10	Transportation	LV	2.48	25	n/a	n/a	n/a	n/a	N	07/2013	Occupational Expert

## Skills

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Skill ratings.

**File Name:** Skills.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Element ID	CHARACTER VARYING(20)	Skill Outline Position in the Content Model Structure
Element Name	CHARACTER VARYING(150)	Skill Name
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for rating
Data Value	FLOAT(5,2)	Rating associated with the O*NET-SOC occupation
N	INTEGER(4)	Sample Size
Standard Error	FLOAT(5,2)	Standard Error
Lower CI Bound	FLOAT(5,2)	Lower 95% Confidence Interval Bound
Upper CI Bound	FLOAT(5,2)	Upper 95% Confidence Interval Bound
<b>Recommend Suppress</b>	<b>CHARACTER(1)</b>	<b>Low Precision Indicator (Y=yes, N=no)</b>
<b>Not Relevant</b>	<b>CHARACTER(1)</b>	<b>Not Relevant for the Occupation (Y=yes, N=no)</b>
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the Content Model Skills data associated with each O\*NET-SOC occupation. It is displayed in 13 tab delimited fields and identified using the column names provided above. Item rating level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Not Relevant, Date, and Domain Source. Refer to **Appendix 2 - Item Rating Level Statistics - Incumbent** for additional information on these items. The 13 fields are represented by one row. There are a total of 64,610 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.0	Scale ID data changed from CHAR(2) to VARCHAR2(3)
5.0	Data Value data type changed from NUMBER(9,6) to NUMBER(5,2)
5.1	Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Not Relevant
5.1	Source column renamed Domain Source
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	Recommend Suppress and Not Relevant data types changed from VARCHAR2(1) to CHARACTER(1)
10.0 - 18.0	No structure changes

**Data Example - Skills:**

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	N	Standard Error	Lower CI Bound	Upper CI Bound	Recommend Suppress	Not Relevant	Date	Domain Source
47-4099.03	2.A.1.a	Reading Comprehension	IM	3.00	8	0.19	2.63	3.37	N	n/a	07/2012	Analyst
47-4099.03	2.A.1.a	Reading Comprehension	LV	2.75	8	0.16	2.43	3.07	N	N	07/2012	Analyst
47-4099.03	2.A.1.b	Active Listening	IM	3.25	8	0.16	2.93	3.57	N	n/a	07/2012	Analyst
47-4099.03	2.A.1.b	Active Listening	LV	3.00	8	0.27	2.48	3.52	N	N	07/2012	Analyst
47-4099.03	2.A.1.c	Writing	IM	2.75	8	0.16	2.43	3.07	N	n/a	07/2012	Analyst
47-4099.03	2.A.1.c	Writing	LV	2.88	8	0.13	2.63	3.12	N	N	07/2012	Analyst
47-4099.03	2.A.1.d	Speaking	IM	3.25	8	0.16	2.93	3.57	N	n/a	07/2012	Analyst

## Task Ratings

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to the ratings for tasks associated with the occupation.

**File Name:** Task Ratings.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Task ID	INTEGER(8)	Identifies each Task containing data ratings
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for the rating
Category	CHARACTER(1)	Task frequency category
Data Value	FLOAT(5,2)	Rating associated with each task of O*NET-SOC occupation
N	INTEGER(4)	Sample Size
Standard Error	FLOAT(5,2)	Standard Error
Lower CI Bound	FLOAT(5,2)	Lower 95% Confidence Interval Bound
Upper CI Bound	FLOAT(5,2)	Upper 95% Confidence Interval Bound
<b>Recommend Suppress</b>	<b>CHARACTER(1)</b>	<b>Low Precision Indicator (Y=yes, N=no)</b>
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the task ratings associated with each O\*NET-SOC occupation. It is displayed in 12 tab delimited fields using the column names above. The 12 fields are represented by one row. Item level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Date and Domain Source. Refer to **Appendix 2 - Item Rating Level Statistics - Incumbent** for additional information on these items. There are a total of 160,794 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
13.0	Added as a new file
14.0 - 18.0	No structure changes

**Data Example – Task Ratings:**

O*NET-SOC Code	Task ID	Scale ID	Category	Data Value	N	Standard Error	Lower CI Bound	Upper CI Bound	Recommend Suppress	Date	Domain Source
43-6013.00	786	FT	1	4.43	59	2.82	1.20	14.96	N	07/2013	Incumbent
43-6013.00	786	FT	2	0.32	59	0.33	0.04	2.48	N	07/2013	Incumbent
43-6013.00	786	FT	3	5.14	59	3.83	1.11	20.71	N	07/2013	Incumbent
43-6013.00	786	FT	4	14.36	59	4.15	7.86	24.77	N	07/2013	Incumbent
43-6013.00	786	FT	5	29.62	59	9.40	14.58	50.93	N	07/2013	Incumbent
43-6013.00	786	FT	6	20.08	59	8.15	8.34	40.98	N	07/2013	Incumbent
43-6013.00	786	FT	7	26.06	59	6.23	15.58	40.24	N	07/2013	Incumbent
43-6013.00	786	IM	n/a	4.29	59	0.16	3.97	4.61	N	07/2013	Incumbent
43-6013.00	786	RT	n/a	60.24	114	7.46	44.97	73.74	N	07/2013	Incumbent



## Task Statements

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to tasks associated with the occupation.

**File Name:** Task Statements.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Task ID	INTEGER(8)	Identifies each Task containing data ratings
Task	CHARACTER VARYING(1000)	Task statement associated with an occupation
Task Type	CHARACTER VARYING(12)	Core or Supplemental
Incumbents Responding	INTEGER(4)	Number of incumbents providing task information
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the tasks associated with each O\*NET-SOC occupation. It is displayed in 7 tab delimited fields using the column names above. The 7 fields are represented by one row. There are a total of 19,450 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
13.0	Added as a new file
14.0 - 18.0	No structure changes

**Data Example – Task Statements:**

O*NET-SOC Code	Task ID	Task	Task Type	Incumbents Responding	Date	Domain Source
43-6013.00	783	Transmit correspondence or medical records by mail, e-mail, or fax.	Core	117	07/2013	Incumbent
43-6013.00	784	Perform various clerical or administrative functions, such as ordering and maintaining an inventory of supplies.	Core	117	07/2013	Incumbent
43-6013.00	785	Arrange hospital admissions for patients.	Supplemental	114	07/2013	Incumbent
43-6013.00	786	Transcribe recorded messages or practitioners' diagnoses or recommendations into patients' medical records.	Supplemental	114	07/2013	Incumbent
43-6013.00	787	Perform bookkeeping duties, such as credits or collections, preparing and sending financial statements or bills, and keeping financial records.	Supplemental	117	07/2013	Incumbent
43-6013.00	788	Complete insurance or other claim forms.	Supplemental	115	07/2013	Incumbent
43-6013.00	789	Prepare correspondence or assist physicians or medical scientists with preparation of reports, speeches, articles, or conference proceedings.	Supplemental	116	07/2013	Incumbent

## Work Activities

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Work Activity ratings.

**File Name:** Work Activities.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Element ID	CHARACTER VARYING(20)	Work Activity Outline Position in the Content Model
Element Name	CHARACTER VARYING(150)	Work Activity Name
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for rating
Data Value	FLOAT(5,2)	Rating associated with the O*NET-SOC occupation
N	INTEGER(4)	Sample Size
Standard Error	FLOAT(5,2)	Standard Error
Lower CI Bound	FLOAT(5,2)	Lower 95% Confidence Interval Bound
Upper CI Bound	FLOAT(5,2)	Upper 95% Confidence Interval Bound
<b>Recommend Suppress</b>	<b>CHARACTER(1)</b>	<b>Low Precision Indicator (Y=yes, N=no)</b>
<b>Not Relevant</b>	<b>CHARACTER(1)</b>	<b>Not Relevant for the Occupation (Y=yes, N=no)</b>
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the Content Model Work Activity data associated with each O\*NET-SOC occupation. It is displayed in 13 tab delimited fields and identified using the column names provided above. Item rating level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Not Relevant, Date, and Domain Source. Refer to **Appendix 2 - Item Rating Level Statistics - Incumbent** for additional information on these items. The 13 fields are represented by one row. There are a total of 75,686 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.0	Scale ID data changed from CHAR(2) to VARCHAR2(3)
5.0	Data Value data type changed from NUMBER(9,6) to NUMBER(5,2)
5.1	Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Not Relevant
5.1	Source column renamed Domain Source
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	Recommend Suppress and Not Relevant data types changed from VARCHAR2(1) to

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<b>Release Number</b>	<b>Description of Change</b>
	CHARACTER(1)
9.0	File name changed from WorkActivity.txt to Work Activities.txt
10.0 - 18.0	No structure changes

**Data Example – Work Activities:**

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	N	Standard Error	Lower CI Bound	Upper CI Bound	Recommend Suppress	Not Relevant	Date	Domain Source
33-3051.03	4.A.1.a.1	Getting Information	IM	4.67	31	0.09	4.48	4.86	N	n/a	07/2012	Incumbent
33-3051.03	4.A.1.a.1	Getting Information	LV	4.34	31	0.48	3.36	5.32	N	N	07/2012	Incumbent
33-3051.03	4.A.1.a.2	Monitor Processes, Materials, or Surroundings	IM	4.24	32	0.13	3.97	4.51	N	n/a	07/2012	Incumbent
33-3051.03	4.A.1.a.2	Monitor Processes, Materials, or Surroundings	LV	5.39	32	0.34	4.68	6.09	N	N	07/2012	Incumbent
33-3051.03	4.A.1.b.1	Identifying Objects, Actions, and Events	IM	4.62	31	0.18	4.25	4.99	N	n/a	07/2012	Incumbent
33-3051.03	4.A.1.b.1	Identifying Objects, Actions, and Event	LV	5.15	31	0.15	4.85	5.45	N	N	07/2012	Incumbent
33-3051.03	4.A.1.b.2	Inspecting Equipment, Structures, or Material	IM	3.62	32	0.23	3.14	4.09	N	n/a	07/2012	Incumbent
33-3051.03	4.A.1.b.2	Inspecting Equipment, Structures, or Material	LV	3.78	32	0.34	3.09	4.46	N	N	07/2012	Incumbent
33-3051.03	4.A.1.b.3	Estimating the Quantifiable Characteristics of Products, Events, or Information	IM	2.92	32	0.33	2.25	3.59	N	n/a	07/2012	Incumbent
33-3051.03	4.A.1.b.3	Estimating the Quantifiable Characteristics of Products, Events, or Information	LV	3.25	32	0.56	2.10	4.40	N	N	07/2012	Incumbent
33-3051.03	4.A.2.a.1	Judging the Qualities of Things, Services, or People	IM	3.86	31	0.14	3.57	4.15	N	n/a	07/2012	Incumbent
33-3051.03	4.A.2.a.1	Judging the Qualities of Things, Services, or People	LV	4.45	32	0.26	3.91	4.98	N	N	07/2012	Incumbent

## Work Context

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Work Context ratings.

**File Name:** Work Context.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Element ID	CHARACTER VARYING(20)	Work Context Outline Position in the Content Model
Element Name	CHARACTER VARYING(150)	Work Context Name
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for rating
Category	INTEGER(3)	Percent frequency category
Data Value	FLOAT(5,2)	Rating associated with the O*NET-SOC occupation
N	INTEGER(4)	Sample Size
Standard Error	FLOAT(5,2)	Standard Error
Lower CI Bound	FLOAT(5,2)	Lower 95% Confidence Interval Bound
Upper CI Bound	FLOAT(5,2)	Upper 95% Confidence Interval Bound
<b>Recommend Suppress</b>	<b>CHARACTER(1)</b>	<b>Low Precision Indicator (Y=yes, N=no)</b>
<b>Not Relevant</b>	<b>CHARACTER(1)</b>	<b>Not Relevant for the Occupation (Y=yes, N=no)</b>
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the Content Model Work Context data associated with each O\*NET-SOC occupation. It is displayed in 14 tab delimited fields and identified using the column names provided above. Item level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Not Relevant, Date and Domain Source. Refer to **Appendix 2 - Item Rating Level Statistics - Incumbent** for additional information on these items. The 14 fields are represented by one row. There are a total of 310,831 rows of data in this file.

Note: The column named Data Value provides both the mean rating (indicated by the value CX in the Scale ID column) and the percent of respondents endorsing each category (indicated by CXP in the Scale ID Column.)

### File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.0	Scale ID data changed from CHAR(2) to VARCHAR2(3)
5.0	Data Value data type changed from NUMBER(9,6) to NUMBER(5,2)
5.1	Source column renamed Domain Source
5.1	All other metadata items added

<b>Release Number</b>	<b>Description of Change</b>
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	Recommend Suppress and Not Relevant data types changed from VARCHAR2(1) to CHARACTER(1)
9.0	File name changed from WorkContext.txt to Work Context.txt
10.0 - 18.0	No structure changes

**Data Example – Work Context:**

O*NET-SOC Code	Element ID	Element Name	Scale ID	Category	Data Value	N	Standard Error	Lower CI Bound	Upper CI Bound	Recommend Suppress	Not Relevant	Date	Domain Source
11-3051.00	4.C.3.d.8	Duration of Typical Work Week	CT	n/a	2.85	41	0.08	2.70	3.00	N	n/a	07/2012	Incumbent
11-3051.00	4.C.3.d.8	Duration of Typical Work Week	CTP	1	0.56	41	0.56	0.07	4.16	N	n/a	07/2012	Incumbent
11-3051.00	4.C.3.d.8	Duration of Typical Work Week	CTP	2	13.81	41	7.47	4.31	36.28	N	n/a	07/2012	Incumbent
11-3051.00	4.C.3.d.8	Duration of Typical Work Week	CTP	3	85.64	41	7.47	63.61	95.31	N	n/a	07/2012	Incumbent



## Work Styles

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Work Styles ratings.

**File Name:** Work Styles.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Element ID	CHARACTER VARYING(20)	Work Styles Outline Position in the Content Model
Element Name	CHARACTER VARYING(150)	Work Styles Name
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for rating
Data Value	FLOAT(5,2)	Rating associated with the O*NET-SOC occupation
N	INTEGER(4)	Sample Size
Standard Error	FLOAT(5,2)	Standard Error
Lower CI Bound	FLOAT(5,2)	Lower 95% Confidence Interval Bound
Upper CI Bound	FLOAT(5,2)	Upper 95% Confidence Interval Bound
<b>Recommend Suppress</b>	<b>CHARACTER(1)</b>	<b>Low Precision Indicator (Y=yes, N=no)</b>
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the Content Model Work Styles data associated with each O\*NET-SOC occupation. It is displayed in 12 tab delimited fields and identified using the column names provided above. Item rating level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Date, and Domain Source. Refer to **Appendix 2 - Item Rating Level Statistics - Incumbent** for additional information on these items. The 12 fields are represented by one row. There are a total of 14,752 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.0	Added as a new file
5.1	Source column renamed Domain Source
5.1	All other metadata items added
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	Recommend Suppress data type changed from VARCHAR2(1) to CHARACTER(1)
9.0	File name changed from WorkStyles.txt to Work Styles.txt
10.0 - 18.0	No structure changes

**Data Example - Work Styles:**

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	N	Standard Error	Lower CI Bound	Upper CI Bound	Recommend Suppress	Date	Domain Source
53-1031.00	1.C.1.a	Achievement/Effort	IM	4.12	36	0.21	3.68	4.55	N	07/2013	Incumbent
53-1031.00	1.C.1.b	Persistence	IM	4.21	36	0.22	3.75	4.66	N	07/2013	Incumbent
53-1031.00	1.C.1.c	Initiative	IM	4.25	36	0.20	3.85	4.65	N	07/2013	Incumbent
53-1031.00	1.C.2.b	Leadership	IM	4.58	36	0.14	4.30	4.86	N	07/2013	Incumbent
53-1031.00	1.C.3.a	Cooperation	IM	4.52	35	0.15	4.22	4.82	N	07/2013	Incumbent
53-1031.00	1.C.3.b	Concern for Others	IM	4.26	36	0.19	3.88	4.64	N	07/2013	Incumbent
53-1031.00	1.C.3.c	Social Orientation	IM	4.09	36	0.26	3.57	4.61	N	07/2013	Incumbent
53-1031.00	1.C.4.a	Self Control	IM	4.38	36	0.19	3.99	4.76	N	07/2013	Incumbent

## Work Values

**Purpose:** Provide a mapping of O\*NET-SOC codes (occupations) to Work Value ratings.

**File Name:** Work Value.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Element ID	CHARACTER VARYING(20)	Work Value Outline Position in the Content Model Structure
Element Name	CHARACTER VARYING(150)	Work Value Name
Scale ID	CHARACTER VARYING(3)	Scale used as the basis for rating
Data Value	FLOAT(5,2)	Rating associated with the O*NET-SOC occupation
Date	CHARACTER(7)	Date when data was updated
Domain Source	CHARACTER VARYING(30)	Source of the data

This file contains the Content Model Work Values data associated with each O\*NET-SOC occupation. It is displayed in seven tab delimited fields with the columns named O\*NET-SOC Code, Element ID, Element Name, Scale ID, Data Value, Date, and Domain Source. The seven fields are represented by one row. There are a total of 8,776 rows of data in this file.

Note: To better understand the scales, refer to the report: [The Second Generation Occupational Value Profiles for the O\\*NET System: Summary](#), on the O\*NET Resource Center site (Home > Products > Research and Technical Reports).

Note: The column named Data Value provides both the mean extent rating (indicated by the value EX in the Scale ID column) and the top three high-point values for respondents endorsing each occupation (indicated by VH in the Scale ID Column.) The high-point values represent the following elements:

- 0.00 = No high-point available
- 1.00 = Achievement
- 2.00 = Working Conditions
- 3.00 = Recognition
- 4.00 = Relationships
- 5.00 = Support
- 6.00 = Independence

Note: The Work Needs ratings were removed from the Work Values file in database release 13.0. The Work Needs are available as a supplemental file that can be downloaded from the O\*NET Resource Center site (Home > Products > Research and Technical Reports).

**File Structure Changes:**

<b>Release Number</b>	<b>Description of Change</b>
5.0	Date and Source columns added
5.0	Scale ID data changed from CHAR(2) to VARCHAR2(3)
5.0	Data Value data type changed from NUMBER(9,6) to NUMBER(5,2)
5.1	Source column renamed Domain Source
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	File name changed from WorkValue.txt to Work Values.txt
10.0 - 18.0	No structure changes

**Data Example – Work Values:**

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Domain Source
11-1011.03	1.B.2.a	Achievement	EX	6.67	07/2012	Analyst
11-1011.03	1.B.2.b	Working Conditions	EX	6.33	07/2012	Analyst
11-1011.03	1.B.2.c	Recognition	EX	6.00	07/2012	Analyst
11-1011.03	1.B.2.d	Relationships	EX	5.00	07/2012	Analyst
11-1011.03	1.B.2.e	Support	EX	3.33	07/2012	Analyst
11-1011.03	1.B.2.f	Independence	EX	6.67	07/2012	Analyst
11-1011.03	1.B.2.g	First Work Value High-Point	VH	1.00	07/2012	Analyst
11-1011.03	1.B.2.h	Second Work Value High-Point	VH	6.00	07/2012	Analyst
11-1011.03	1.B.2.i	Third Work Value High-Point	VH	2.00	07/2012	Analyst

# **Other File Descriptions**

## Education, Training, and Experience Categories

**Purpose:** Provide description of the Education, Training, and Experience percent frequency categories.

**File Name:** Education, Training, and Experience Categories.txt

### Structure and Description:

Column	Type	Column Content
Element ID	CHARACTER VARYING(20)	Content Model Outline Position
Element Name	CHARACTER VARYING(150)	Content Model Element Name
Scale ID	CHARACTER VARYING(3)	Scale ID
Category	INTEGER(3)	Category Value Associated with Element
Category Description	CHARACTER VARYING(1000)	Detail Description of Category Associated with Element

This file contains the categories associated with the Education, Training, and Experience content area. Categories for the following scales are included: Required Level of Education (RL), Related Work Experience (RW), On-Site or In-Plant Training (PT), and On-The-Job Training (OJ).

The file is displayed in five tab delimited fields with the columns named Element ID, Element Name, Scale ID, Category, and Category Description. The five fields are represented by one row. There are a total of 41 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
9.0	Added as a new file
10.0 - 18.0	No structure changes

**Data Example - Education, Training, and Experience Categories:**

<b>Element ID</b>	<b>Element Name</b>	<b>Scale ID</b>	<b>Category</b>	<b>Category Description</b>
3.A.1	Related Work Experience	RW	1	None
3.A.1	Related Work Experience	RW	2	Up to and including 1 month
3.A.1	Related Work Experience	RW	3	Over 1 month, up to and including 3 months
3.A.1	Related Work Experience	RW	4	Over 3 months, up to and including 6 months
3.A.1	Related Work Experience	RW	5	Over 6 months, up to and including 1 year
3.A.1	Related Work Experience	RW	6	Over 1 year, up to and including 2 years
3.A.1	Related Work Experience	RW	7	Over 2 years, up to and including 4 years
3.A.1	Related Work Experience	RW	8	Over 4 years, up to and including 6 years
3.A.1	Related Work Experience	RW	9	Over 6 years, up to and including 8 years
3.A.1	Related Work Experience	RW	10	Over 8 years, up to and including 10 years
3.A.1	Related Work Experience	RW	11	Over 10 years



## Green Occupations

**Purpose:** Provide a comprehensive list of all green occupations.

**File Name:** Green Occupations.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Green Occupational Category	CHARACTER VARYING(40)	Green Occupational Category

This file contains the occupations that have been identified as Green. The Green occupational categories assigned to the occupations are:

- **Green New & Emerging** - The impact of green economy activities and technologies is sufficient to create the need for unique work and worker requirements, which results in the generation of new occupations.
- **Green Enhanced Skills** - The impact of green economy activities and technologies results in a significant change to the work and worker requirements of an existing O\*NET-SOC occupation.
- **Green Increased Demand** - The impact of green economy activities and technologies results in an increase in employment demand, but does not entail significant changes in the work and worker requirements of the occupation

The file is displayed in two tab delimited fields with the columns named O\*NET-SOC Code and Green Occupational Category. The two fields are represented by one row. There are a total of 204 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
16.0	Added as a new file
17.0 - 18.0	No structure changes

**Data Example - Green Occupations:**

O*NET-SOC Code	Green Occupation Category
11-9041.00	Green Enhanced Skills
11-9121.00	Green Increased Demand
11-9121.02	Green New & Emerging
11-9199.01	Green New & Emerging

## Level Scale Anchors

**Purpose:** Provide description of O\*NET Level Scale Anchors.

**File Name:** Level Scale Anchors.txt

### Structure and Description:

Column	Type	Column Content
Element ID	CHARACTER VARYING(20)	Content Model Outline Position
Element Name	CHARACTER VARYING(150)	Content Model Element Name
Scale ID	CHARACTER VARYING(3)	Scale ID
Anchor Value	INTEGER(3)	Anchor Value Associated With Element
Anchor Description	CHARACTER VARYING(1000)	Detail Description of Anchor Associated With Element

This file contains the scale anchors associated with the following four content areas – 1) Abilities, 2) Knowledge, 3) Skills, and 4) Work Activities. It includes all scale anchors utilized in the data collection survey where the scale anchors are variable and item specific. Scale anchors are not included for those survey items where the scale anchors are fixed. This includes the five-point importance scale and the seven-point task frequency scale. (Note: See O\*NET Data Questionnaires at <http://www.onetcenter.org/ombclearance.html>).

The file is displayed in five tab delimited fields with the columns named Element ID, Element Name, Scale ID, Anchor Value, and Anchor Description. The five fields are represented by one row. There are a total of 483 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.1	Added as a new file
6.0	Added Scale ID column
7.0 – 8.0	No structure changes
9.0	File name changed from Anchors.txt to Level Scale Anchors.txt
9.0	The data for Education, Training, and Experience and Work Context were moved into their own files for data clarity purposes.
10.0 - 18.0	No structure changes

**Data Example - Level Scale Anchors:**

<b>Element ID</b>	<b>Element Name</b>	<b>Scale ID</b>	<b>Anchor Value</b>	<b>Anchor Description</b>
1.A.1.a.1	Oral Comprehension	LV	2	Understand a television commercial
1.A.1.a.1	Oral Comprehension	LV	4	Understand a coach's oral instructions for a sport
1.A.1.a.1	Oral Comprehension	LV	6	Understand a lecture on advanced physics
1.A.1.a.2	Written Comprehension	LV	2	Understand signs on the highway
1.A.1.a.2	Written Comprehension	LV	4	Understand an apartment lease
1.A.1.a.2	Written Comprehension	LV	6	Understand an instruction book on repairing missile guidance systems
1.A.1.a.3	Oral Expression	LV	2	Cancel newspaper delivery by phone
1.A.1.a.3	Oral Expression	LV	4	Give instructions to a lost motorist
1.A.1.a.3	Oral Expression	LV	6	Explain advanced principles of genetics to college freshmen
1.A.1.a.4	Written Expression	LV	1	Write a note to remind someone to take food out of the freezer
1.A.1.a.4	Written Expression	LV	4	Write a job recommendation for a subordinate

## Occupation Level Metadata

**Purpose:** Provide O\*NET-SOC Occupational Level Metadata associated with the incumbent data collection.

**File Name:** Occupation Level Metadata.txt

### Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	CHARACTER(10)	O*NET-SOC Code
Item	CHARACTER VARYING(150)	Occupation Level Statistics
Response	CHARACTER VARYING(75)	Type of Response
N	INTEGER(4)	Sample Size for Occupation
Percent	FLOAT(4,1)	Percentage of responses
Date	CHARACTER(7)	Date the data was updated

This file contains occupational level metadata variables associated with data collection statistics. The file is displayed in six tab delimited fields with the columns named O\*NET-SOC Code, Item, Response, N, Percent and Date. The six fields are represented by one row. Refer to **Appendix 3 - Key to Incumbent Occupation Level Metadata** for additional descriptions of the data provided in this file. There are a total of 32,302 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
5.1	Added as a new file
6.0 – 8.0	No structure changes
9.0	The data type for Date was changed from DATE to CHARACTER(7) with the format MM/YYYY
9.0	File name changed from OccLevelMetadata.txt to Occupation Level Metadata.txt
10.0 - 18.0	No structure changes

**Data Example - Occupation Level Metadata:**

O*NET-SOC Code	Item	Response	N	Percent	Date
11-1011.03	Data Collection Mode	Paper	26	34.6	07/2013
11-1011.03	Data Collection Mode	Web	26	65.4	07/2013
11-1011.03	How Long at Current Job	1-5 Years	26	19.2	07/2013
11-1011.03	How Long at Current Job	10 Years or More	26	46.2	07/2013
11-1011.03	How Long at Current Job	6-9 Years	26	34.6	07/2013
11-1011.03	How Long at Current Job	<1 Year	26	0.0	07/2013
11-1011.03	How Long at Current Job	Missing	26	0.0	07/2013
11-1011.03	Industry Division (Major Group Codes (SIC) within Division in parentheses)	Agriculture, Forestry, Fishing (01-09)	n/a	n/a	07/2013
11-1011.03	Industry Division (Major Group Codes (SIC) within Division in parentheses)	Construction (15-17)	n/a	n/a	07/2013
11-1011.03	Industry Division (Major Group Codes (SIC) within Division in parentheses)	Financial, Insurance and Real Estate (60-67)	n/a	n/a	07/2013
11-1011.03	Industry Division (Major Group Codes (SIC) within Division in parentheses)	Manufacturing (20-39)	n/a	n/a	07/2013
11-1011.03	Industry Division (Major Group Codes (SIC) within Division in parentheses)	Mining (10-14)	n/a	n/a	07/2013
11-1011.03	Industry Division (Major Group Codes (SIC) within Division in parentheses)	Non-Classifiable (99)	n/a	n/a	07/2013
11-1011.03	Industry Division (Major Group Codes (SIC) within Division in parentheses)	Public Administration (90-97)	n/a	n/a	07/2013
11-1011.03	Industry Division (Major Group Codes (SIC) within Division in parentheses)	Retail Trade (52-59)	n/a	n/a	07/2013
11-1011.03	Industry Division (Major Group Codes (SIC) within Division in parentheses)	Services (70-89)	n/a	n/a	07/2013

## Survey Booklet Locations

**Purpose:** Provide O\*NET Content Model elements.

**File Name:** Survey Booklet Locations.txt

### Structure and Description:

Column	Type	Column Content
Element ID	CHARACTER VARYING(20)	Content Model Outline Position
Element Name	CHARACTER VARYING(150)	Content Model Element Name
Survey Item Number	CHARACTER VARYING(4)	Survey Booklet Location Number
Scale ID	CHARACTER VARYING(3)	Scale ID

This file contains the Content Model elements that have corresponding survey item numbers in the Survey Booklet. It is displayed in four tab delimited fields with the columns named Element ID, Element Name, Survey Item Number, and Scale ID. The four fields are represented by one row. There are a total of 419 rows of data in this file.

Note: Each survey item number corresponds to a survey question in the O\*NET Questionnaires, found on the O\*NET Resource Center site (Home > Data Collection > OMB Clearance). The values for incumbent data categories are percentage ratings corresponding to survey question options. Match the element ID(s) from data files to a survey item number using this file.

### File Structure Changes:

Release Number	Description of Change
5.0	Added as a new file
5.1 – 8.0	No structure changes
9.0	File name changed from Survey_Booklet_Location_Reference.txt to Survey Booklet Locations.txt
10.0 – 12.0	No structure changes
13.0	Added Scale ID column
14.0 - 18.0	No structure changes

### Data Example - Survey Booklet Locations:

Element ID	Element Name	Survey Item Number	Scale ID
1.A.1.a.1	Oral Comprehension	AB01	IM
1.A.1.a.1	Oral Comprehension	AB01	LV
1.A.1.a.2	Written Comprehension	AB02	IM
1.A.1.a.2	Written Comprehension	AB02	LV
1.A.1.a.3	Oral Expression	AB03	IM
1.A.1.a.3	Oral Expression	AB03	LV

## Task Categories

**Purpose:** Provide description of Task categories.

**File Name:** Task Categories.txt

### Structure and Description:

Column	Type	Column Content
Scale ID	CHARACTER VARYING(3)	Scale ID
Category	INTEGER(3)	Category Value Associated with Scale ID
Category Description	CHARACTER VARYING(1000)	Detail Description of Category Associated with Scale ID

This file contains the categories associated with the Task content area. Categories for the scale Frequency of Task (FT) are included.

The file is displayed in three tab delimited fields with the columns named Scale ID, Category, and Category Description. The three fields are represented by one row. There are a total of 7 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
13.0	Added as a new file
14.0 - 18.0	No structure changes

### Data Example - Task Categories:

Scale ID	Category	Category Description
FT	1	Yearly or less
FT	2	More than yearly
FT	3	More than monthly
FT	4	More than weekly
FT	5	Daily
FT	6	Several times daily
FT	7	Hourly or more



## Work Context Categories

**Purpose:** Provide description of Work Context categories.

**File Name:** Work Context Categories.txt

### Structure and Description:

Column	Type	Column Content
Element ID	CHARACTER VARYING(20)	Content Model Outline Position
Element Name	CHARACTER VARYING(150)	Content Model Element Name
Scale ID	CHARACTER VARYING(3)	Scale ID
Category	INTEGER(3)	Category Value Associated with Element
Category Description	CHARACTER VARYING(1000)	Detail Description of Category Associated with Element

This file contains the categories associated with the Work Context content area. Categories for the following scales are included: Context (CXP) and Context Category (CTP). The file includes categories utilized in the data collection survey where the category descriptions are variable and item specific.

The file is displayed in five tab delimited fields with the columns named Element ID, Element Name, Scale ID, Category, and Category Description. The five fields are represented by one row. There are a total of 281 rows of data in this file.

### File Structure Changes:

Release Number	Description of Change
9.0	Added as a new file
10.0 - 18.0	No structure changes

**Data Example - Work Context Categories:**

<b>Element ID</b>	<b>Element Name</b>	<b>Scale ID</b>	<b>Category</b>	<b>Category Description</b>
4.C.1.a.2.1	Face-to-Face Discussions	CXP	1	Never
4.C.1.a.2.1	Face-to-Face Discussions	CXP	2	Once a year or more but not every month
4.C.1.a.2.1	Face-to-Face Discussions	CXP	3	Once a month or more but not every week
4.C.1.a.2.1	Face-to-Face Discussions	CXP	4	Once a week or more but not every day
4.C.1.a.2.1	Face-to-Face Discussions	CXP	5	Every day
4.C.1.a.4	Contact With Others	CXP	1	No contact with others
4.C.1.a.4	Contact With Others	CXP	2	Occasional contact with others
4.C.1.a.4	Contact With Others	CXP	3	Contact with others about half the time
4.C.1.a.4	Contact With Others	CXP	4	Contact with others most of the time
4.C.1.a.4	Contact With Others	CXP	5	Constant contact with others

# Appendices

## Appendix 1 - Item Rating Level Statistics - Analyst

### Rating Level Statistics

For each of the Ability domain and Skills domain elements, additional rating level statistics, such as Standard Error and data flags are included to help provide a description of the quality of the data values. The file has columns to represent these additional values.

The explanations for the Rating Level Statistics columns are explained in the following definitions.

**Standard Error** - Standard errors were calculated to provide an indication of each estimate's precision. The standard error of the mean ( $SE_M$ ) is the standard deviation of the ratings across analysts divided by the square root of the number of analysts (i.e., eight). Statistics with large standard errors are generally considered less precise than those with small standard errors.

**Upper CI Bound and Lower CI Bound** - The standard error of the mean ( $SE_M$ ) was used to define a range (confidence interval) around the estimate. The upper and lower bounds of the 95% confidence interval establish this range such that over a large number of sample estimates the probability is .95 that the population mean will be included in a confidence interval of this size. The upper bound of the confidence interval is calculated by taking the  $SE_M$  and multiplying it by 1.96 and adding that number to the observed mean. The lower bound of the confidence interval is calculated by taking the  $SE_M$  and multiplying it by 1.96 and subtracting that number from the observed mean.

**Recommend Suppress** - Users are encouraged to use estimates exhibiting “low precision” with caution and for many applications users are advised to consider suppressing these estimates. Abilities and Skills estimates are considered to have low precision if the standard error is greater than .51. The value of .51 was selected as a suppression criterion because  $1.0/1.96 = .5102$ . An  $SE_M$  of  $>.51$  means that the upper and lower bounds of the confidence interval are more than 1 scale point away from the observed mean.

**Not Relevant** –The ability or skill level rating is identified as "not relevant" if 0, 1, or 2 analysts rated importance for that ability  $\geq 2$  (i.e., six or more analysts rated importance a 1). A value of "Y" indicates 0, 1, or 2 analysts rated importance  $\geq 2$ . A value of "N" indicates more than 2 analysts rated importance  $\geq 2$ . Users are encouraged to provide their end-users with an indication that the item level rating is “not relevant” rather than displaying the level value or displaying no level information.

## Appendix 2 - Item Rating Level Statistics - Incumbent

### Rating Level Statistics

For each of the domain elements, additional rating level statistics, such as Standard Error and data flags are included to help provide a description of the quality of the data values. Each of the domain files (Education, Training, and Experience, Knowledge, Tasks, Work Activities, Work Context, and Work Styles) has columns to represent these additional values.

The explanations for the Rating Level Statistics columns are explained in the following definitions.

**Standard Error** - Standard errors were calculated to provide an indication of each estimate's precision. The standard error is the square root of the variance of the estimate. Statistics with large variances are generally considered less precise than those with small variances.

**Upper CI Bound and Lower CI Bound** - The standard error was used to define a range (confidence interval) around the estimate. The 95-percent confidence level means that if all possible samples were selected and an estimate of the value and its sampling error were computed for each, then for approximately 95 percent of the samples, the interval would include the "true" average value.

**Recommend Suppress** - Users are encouraged to use estimates exhibiting "low precision" with caution and for many applications users are advised to consider suppressing these estimates. An estimate is considered to have low precision if any of the following are true: (1) the sample size is less than 10; (2) the variance is 0 and the sample size is less than 15; (3) the relative standard error (RSE) is greater than 0.5. (The RSE of a mean estimate is the ratio of the estimate's standard error to the estimate itself. To calculate the RSE of the estimates expressed as percentages (e.g., the proportion of respondents who indicated they perform a task once per week), the log transformation of the proportion was used.)

**Not Relevant** – "Level" estimates were flagged as "not relevant" if more than 75% of item respondents to the corresponding "Importance" item rated the item as "not important." Users are encouraged to provide their end-users with an indication that the item level rating is "not relevant" rather than displaying the level value or displaying no level information.

### Appendix 3 - Key to Incumbent Occupation Level Metadata

Each O\*NET-SOC Code has detailed information associated with the O\*NET data collection called Occupation Level Metadata. The name and explanation for each data value in the item column is presented below. The O\*NET-SOC Level Sample Distribution Statistics, that are provided in the Percent column of the Occupation Level Metadata file, are unweighted percents. Therefore, these values do not represent the estimated distribution of the O\*NET-SOC population.

**O\*NET-SOC Establishment Response Rate** - The establishment response rate is the percentage of sampled eligible establishments for the occupation that agreed to participate.

**O\*NET-SOC Employee Response Rate** - The employee response rate is the percentage of participating employees who returned questionnaires.

**O\*NET-SOC Eligible Expert Response Rate** - The eligible expert response rate is the percentage of eligible employees who returned questionnaires.

**O\*NET-SOC Case Completeness Rate** - The case completeness rate for an occupation refers the percentage of total returned questionnaires that were retained after editing and data cleaning.

**Total Completes for O\*NET-SOC** – Total Completes refers to the total number of incumbents who completed one of the four questionnaire types.

**Data Collection Mode** - Incumbents had the option to complete the questionnaire either using a web-based survey or a paper survey. Valid responses are:

- Paper
- Web

**How Long at Current Job** - Incumbents indicated in the background questionnaire how long they had been in their current job. Valid responses are:

- 10 years or more
- 6-9 years
- 1-5 years
- <1 year
- Missing

**Industry Division (Major Group Codes (SIC) within Division in parentheses)** - Each sampled establishment was assigned to one primary industry division in the sampling frame. The Major Industry Group Codes (SIC) within the Division are provided in parentheses. Valid responses are:

- Agriculture, Forestry, Fishing (01 - 09)
- Mining (10 - 14)
- Construction (15 - 17)

- Manufacturing (20 - 39)
- Transportation, Communication, Electric, Gas, and Sanitary Services (40 - 49)
- Wholesale Trade (50 -51)
- Retail Trade (52 - 59)
- Financial, Insurance and Real Estate (60 - 67)
- Services (70 - 89)
- Public Administration (91 - 97)
- Non-classifiable (99)

**North American Industry Classification System (NAICS) Sector** - Each sampled establishment was assigned to one type of economic activity sector in the sampling frame. Valid responses are:

- Accommodation and food services
- Administrative and support and waste management and remediation services
- Agriculture, forestry, fishing and hunting
- Arts, entertainment, and recreation
- Construction
- Education services
- Finance and insurance
- Health care and social assistance
- Information
- Management of Companies and Enterprises
- Manufacturing
- Mining
- Other services, except public administration
- Professional, Scientific and Technical Services
- Public administration
- Real estate and rental and leasing
- Retail trade
- Transportation and warehousing
- Unclassified
- Utilities
- Wholesale trade

## Appendix 4 – Content Updates Since Release 4.0

The O\*NET 4.0 database represents the final version of an "analyst ratings only" O\*NET Database. The ratings for each of the 900+ O\*NET-SOC occupations in the 4.0 database were developed by occupational analysts and every occupation contains ratings for the same range of descriptors. The ongoing O\*NET data collection program is gradually replacing these original analyst ratings with ratings derived primarily from job incumbents, as well as, ratings from an updated analyst procedure. The database structure and content changes incorporated in 4.0 were made to make the database consistent with data collection program. For more details about these changes, please refer to “*Summary of O\*NET 4.0 Content Model and Database*” (October 2001) (<http://www.onetcenter.org/resData.html#summary>)

The April 2003 release of the O\*NET 5.0 Database represented the first database release to incorporate data from the data collection program. It was the first of planned semi-annual updates of the database to update all O\*NET-SOC occupations.

### **Release 5.0 contained the following:**

- New and revised Task Statements (455 occupations)
- Addition of Task Statement ratings (54 occupations)
- Updated Abilities, Work Activities, Knowledge, Skills, and Work Context data (54 occupations)
- Addition of Training and Work Experience, and Education data (54 occupations)
- Addition of Work Styles data (54 occupations)
- Addition of metadata to the file structure to specify source of data and date of update
- Addition of Emerging Task Statements
- Addition of Detailed Work Activities

### **Release 5.1 contained the following:**

- New and Revised Task Statements (69 occupations)
- Updated Job Zones (54 occupations)
- Level Scale Anchors for Skills, Knowledge, Ability, and Work Activity Domains
- New Occupational Level Metadata
  - O\*NET-SOC Establishment Response Rate
  - O\*NET-SOC Employee Response Rate
  - O\*NET-SOC Case Completeness Rate
  - Total Completes for O\*NET-SOC
- New Occupational Level Distribution Statistics
  - Data Collection Mode
  - How long at Current Job
  - Industry
- New Ratings Level Metadata
  - Standard Error



- Lower 95% Confidence Interval Bound
- Upper 95% Confidence Interval Bound
- Sample Size
- Recommended Suppression
- “Not Relevant for the Occupation” flag

**Release 6.0 contained the following:**

- New and revised Task Statements (140 occupations)
- Addition of Task Statement ratings (126 occupations)
- Updated Abilities, Work Activities, Knowledge, Skills, and Work Context data (126 occupations)
- Addition of Training and Work Experience, and Education data (126 occupations)
- Addition of Work Styles data (126 occupations)
- Updated Job Zones (126 occupations)
- Addition of scale anchors for both the Work Context and for the Education, Training and Experience domains.
- Updated Occupation Level Metadata (126 occupations)

**Release 7.0 contained the following:**

- Addition of Task Statement ratings (100 occupations)
- Updated Abilities, Knowledge, Skills, Work Activities, and Work Context data (100 occupations)
- Addition of Education, Training and Work Experience data (100 occupations)
- Addition of Work Styles data (100 occupations)
- Updated Job Zones (100 occupations)
- Updated Occupation Level Metadata (100 occupations)

**Release 8.0 contained the following:**

- New and revised Task Statements (98 occupations)
- Addition of Task Statement ratings (100 occupations)
- Updated Abilities, Knowledge, Skills, Work Activities, and Work Context data (100 occupations)
- Addition of Education, Training and Work Experience data (100 occupations)
- Addition of Work Styles data (100 occupations)
- Updated Job Zones (100 occupations)
- Updated Occupation Level Metadata (100 occupations)

**Release 9.0 contained the following:**

- Addition of Task Statement ratings (100 occupations)
- Updated Abilities, Knowledge, Skills, Work Activities, and Work Context data (100 occupations)
- Addition of Education, Training and Work Experience data (100 occupations)
- Addition of Work Styles data (100 occupations)
- Updated Job Zones (100 occupations)
- Updated Occupation Level Metadata (100 occupations)

**Release 10.0 contained the following:**

- Addition of Task Statement ratings (100 occupations)
- Updated Abilities, Knowledge, Skills, Work Activities, and Work Context data (100 occupations)
- Addition of Education, Training and Work Experience data (100 occupations)
- Addition of Work Styles data (100 occupations)
- Updated Job Zones (100 occupations)
- Updated Occupation Level Metadata (100 occupations)

**O\*NET Database 10.0 – Updating the O\*NET-SOC Taxonomy**

In addition to the content update described above, the O\*NET 10.0 database was the 1<sup>st</sup> database release to reflect the updated O\*NET-SOC 2006 taxonomy. This taxonomy update is the first major change to the taxonomy since 2000 with its conversion to a SOC-based taxonomy (O\*NET-SOC 2000). A summary of this update and implementation of the O\*NET-SOC 2006 taxonomy can be found in our *Updating the O\*NET-SOC Taxonomy Report* (April, 2006). The report is available for download from the O\*NET Resource Center site (<http://www.onetcenter.org/reports/UpdatingTaxonomy.html>).

**Release 11.0 contained the following:**

- Addition and update of Task Statement ratings (101 occupations)
- Updated Abilities, Knowledge, Skills, Work Activities, and Work Context data (101 occupations)
- Addition and update of Education, Training and Work Experience data (101 occupations)
- Addition and update of Work Styles data (101 occupations)
- Updated Job Zones (101 occupations)
- Updated Occupation Level Metadata (101 occupations)

**Release 12.0 contained the following:**

- Addition and update of Task Statement ratings (100 occupations)
- Updated Abilities, Knowledge, Skills, Work Activities, and Work Context data (100 occupations)
- Addition and update of Education, Training and Work Experience data (100 occupations)
- Addition and update of Work Styles data (100 occupations)
- Addition and update of Job Zones (101 occupations)
- Updated Occupation Level Metadata (100 occupations)

**Release 13.0 contained the following:**

- Addition and update of Task Statement ratings (106 occupations)
- Updated Abilities, Knowledge, Skills, Work Activities, and Work Context data (106 occupations)
- Additional Work Context data (106 occupations)
- Addition and update of Education, Training and Work Experience data (106 occupations)
- Addition and update of Work Styles data (106 occupations)
- Addition and update of Job Zones (108 occupations)
- Updated Occupation Level Metadata (106 occupations)
- Addition and update of Interests and Work Values data (812 occupations)

**Release 14.0 contained the following:**

- Addition and update of Task Statement ratings (117 occupations)
- Addition and update of Abilities, Knowledge, Work Activities, and Work Context data (117 occupations)
- Addition and update of Education, Training and Work Experience data (117 occupations)
- Addition and update of Work Styles data (117 occupations)
- Addition and update of Job Zones (117 occupations)
- Updated Occupation Level Metadata (117 occupations)
- Addition and update of Interests and Work Values data (96 occupations)

**O\*NET Database 14.0 – Updating the O\*NET-SOC Taxonomy**

In addition to the content update described above, the O\*NET 14.0 database is the 1<sup>st</sup> database release to reflect the updated O\*NET-SOC 2009 taxonomy. This taxonomy update is the second major change to the taxonomy since 2000 with its conversion to a SOC-based taxonomy (O\*NET-SOC 2000). This new taxonomy contains an additional 153 New and Emerging (N&E) occupations. For more information about N&E, see *New and Emerging Occupations of the 21st Century: Updating the O\*NET-SOC Taxonomy* (March, 2009). This report and an O\*NET-SOC 2006 to

2009 'look-up' file are available for download from the O\*NET Resource Center web site (<http://www.onetcenter.org/taxonomy.html>).

**Release 15.0 contained the following:**

- Addition and update of Task Statement ratings (120 occupations)
- Addition and update of Abilities, Knowledge, Work Activities, and Work Context data (120 occupations)
- Addition and update of Education, Training and Work Experience data (120 occupations)
- Addition and update of Work Styles data (120 occupations)
- Addition and update of Job Zones (120 occupations)
- Updated Occupation Level Metadata (120 occupations)
- Addition and update of Skills data (853 occupations)

**Release 15.1 contained the following:**

- Codes, titles, and descriptions for **1,110** O\*NET-SOC 2010 occupations
- Task statements for **974** O\*NET-SOC 2010 occupations in the O\*NET Data Collection Plan
- Comprehensive updates for **838** O\*NET-SOC 2010 occupations

**O\*NET Database 15.1 – Updating the O\*NET-SOC Taxonomy**

The O\*NET 15.1 Taxonomy Preview Database aligns the O\*NET-SOC taxonomy with the 2010 SOC (Office of Management and Budget, 2010). Data from the O\*NET 15.0 database (O\*NET-SOC 2009) has been incorporated into the new O\*NET-SOC 2010 taxonomy, including the new O\*NET-SOC codes, titles, and descriptions. For 838 data-level occupations, the data remains unchanged from its publication in the O\*NET 15.0 database. This occurs where the O\*NET-SOC 2010 occupation is a clear successor of the O\*NET-SOC 2009 occupation. There are 6 exceptional cases where data has been aggregated from one or more source occupations.

Changes made to the O\*NET 15.1 Database are summarized below. A historical summary of all database changes since the release of the O\*NET 4.0 Database are provided in Figure 3 page 58. In the O\*NET 15.1 Database, 545 occupations had changes to their code, title, and/or description that are reflected in the Occupational Data file.

In 15.1, changes in the Domain Files fall into three categories:

- 50 occupations with data in the 15.0 release have a new O\*NET-SOC Code in the 2010 taxonomy. The data and metadata for these occupations are unchanged, but the O\*NET-SOC Code field now reflects the latest taxonomy. These code changes impact all domain files, and also the Occupation Level Metadata file.

- 6 exceptional occupations feature data aggregated from one or more occupations from the O\*NET-SOC 2009 taxonomy. In these cases, “Recommend Suppress” and “Not Relevant” variables carry a “Y” value if ANY of the source occupations carried that value; no other metadata variables are included. Some data elements were not aggregated and are not present for these occupations, including all Education, Training, and Experience elements and all task ratings. These 6 occupations, listed below, will be comprehensively updated in a future release.

13-1071.00 Human Resources Specialists  
 15-1143.00 Computer Network Architects  
 23-1012.00 Judicial Law Clerks  
 51-5112.00 Printing Press Operators  
 51-5113.00 Print Binding and Finishing Workers  
 51-9151.00 Photographic Process Workers and Processing Machine Operators

- 26 occupations newly added in the 2010 taxonomy carry new task statements, but not task ratings. This includes the 6 exceptional occupations cited above. With these additional statements, all 974 occupations in the O\*NET Data Collection Plan carry full task lists in the 15.1 release.

11-9013.02 Farm and Ranch Managers  
 11-9061.00 Funeral Service Managers  
 13-1071.00 Human Resources Specialists  
 13-1075.00 Labor Relations Specialists  
 13-1131.00 Fundraisers  
 13-2071.00 Credit Counselors  
 15-1143.00 Computer Network Architects  
 15-1152.00 Computer Network Support Specialists  
 21-1094.00 Community Health Workers  
 23-1012.00 Judicial Law Clerks  
 25-2051.00 Special Education Teachers, Preschool  
 25-2052.00 Special Education Teachers, Kindergarten and Elementary School  
 29-1125.01 Art Therapists  
 29-1125.02 Music Therapists  
 29-1128.00 Exercise Physiologists  
 29-2035.00 Magnetic Resonance Imaging Technologists  
 29-2057.00 Ophthalmic Medical Technicians  
 29-2099.05 Ophthalmic Medical Technologists  
 29-2099.07 Surgical Assistants  
 31-1014.00 Nursing Assistants  
 31-1015.00 Orderlies  
 31-9097.00 Phlebotomists  
 49-2021.00 Radio, Cellular, and Tower Equipment Installers and Repairers  
 51-5112.00 Printing Press Operators  
 51-5113.00 Print Binding and Finishing Workers  
 51-9151.00 Photographic Process Workers and Processing Machine Operators

**Release 16.0 contained the following:**

- Addition and update of Task Statement ratings (107 occupations)
- Addition and update of Abilities, Knowledge, Skills, Work Activities, and Work Context data (107 occupations)
- Addition and update of Education, Training and Work Experience data (107 occupations)
- Addition and update of Work Styles data (107 occupations)
- Addition and update of Job Zones (107 occupations)
- Updated Occupation Level Metadata (107 occupations)
- New Occupational Level Metadata
  - O\*NET-SOC Eligible Expert Response Rate
- Addition of Green Occupations data (204 occupations)
- Addition of Green Task Statements data (140 occupations)

**Release 17.0 contained the following:**

- Addition and update of Task Statement ratings (108 occupations)
- Addition and update of Abilities, Knowledge, Skills, Work Activities, and Work Context data (108 occupations)
- Addition and update of Education, Training and Work Experience data (108 occupations)
- Addition and update of Work Styles data (108 occupations)
- Addition and update of Work Values data (83 occupations)
- Addition and update of Job Zones (108 occupations)
- Updated Occupation Level Metadata (108 occupations)
- Update of Green Task Statements data (6 occupations)

**Release 18.0 contains the following:**

- Addition and update of Task Statement ratings (134 occupations)
- Addition and update of Abilities, Knowledge, Skills, Work Activities, and Work Context data (105 occupations)
- Addition and update of Education, Training and Work Experience data (105 occupations)
- Addition and update of Work Styles data (105 occupations)
- Addition and update of Interests data (83 occupations)
- Addition and update of Job Zones (105 occupations)
- Updated Occupation Level Metadata (105 occupations)

## Appendix 5 – Historical Summary of Database Content Changes

Figure 3- O\*NET Database Content Changes Since Release 4.0

		Release																
File		5.0	5.1	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	15.1	16.0	17.0	18.0	
Lookup Files	Content Model Reference						C		C		N, C							
	Job Zone Reference						C					C						
	Occupation			U, C		C	C	C				C	U	C				
	Scales Reference		C								C							
Domain Files	Abilities	U, N	N, C	U	U	U	U	U, C	U	U	U	U	U	C	U	U	U	
	Education, Training, & Experience	N	N	U	U	U	U	U, C	U	U	U	U	U	C	U	U	U	
	Green Task Statements														N	U	U	
	Interests	N						C			U	U		C			U	
	Job Zones		N	U	U	U, C	U, C	U, C	U	U, C	U	U	U	C	U	U	U	
	Knowledge	U	N	U	U	U	U	U, C	U	U	U	U	U	C	U	U	U	
	Skills	U, N	N	U	U	U	U	U, C	U	U	U	U, C	U	C	U	U	U	
	Task Ratings											U, C	U	U	C	U	U	U
	Task Statements											U, C	U	U	C	U, C	U	U
	Tasks	U, N	U, N, C	U, N, C	U, N, C	U, N, C	U, N, C	U, N, C	U	U								
	Work Activities	U, N	N	U	U	U	U	U, C	U	U	U	U	U	U	C	U	U	U
	Work Context	U, N	N	U	U	U	U	U, C	U	U	U	U	U	U	C	U	U	U
Work Styles	N	N	U	U	U	U	U, C	U	U	U	U	U	U	C	U	U	U	
Work Values	N							C			U	U		C		U		
Other Files	Education, Training, & Experience Categories						C											
	Green Occupations														N			
	Level Scale Anchors		N	U		C	C											
	Occupation Level Meta		N	U	U	U	U	U, C	U	U	U	U	U	C	U, C	U		
	Survey Booklet Locations	N										N, C			C			
	Task Categories											C						
Work Context Categories						C												

**Note:** U = content changes resulting from the data collection program; N = data elements/types/descriptors first appearing in the database; and C = any other edits made. Shaded cells indicate a file was not present in that release.