

Data Dictionary

O*NET[®] 30.3 Database

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May 2026

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Using 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.

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”. 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.

For more information, see the Appendices:

- [Appendix 1, Item Rating Level Statistics - Analyst](#)
- [Appendix 2, Item Rating Level Statistics - Incumbent](#)
- [Appendix 3, Key to Occupation Level Metadata](#)

In the “Structure and Description” section documenting each file, cells that are shaded or contain **bold** text denote O*NET metadata versus O*NET data. Bold text highlights the “Not Relevant” and “Recommend Success” flags recommended for typical use of O*NET data.

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Skills

Software Skills

Purpose: Provide Software Skills workplace examples.

File Name: Software Skills.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Workplace Example	Character Varying(150)	Software skill example
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Hot Technology	Character(1)	Whether example is classified as a hot technology (Y=yes, N=no)
In Demand	Character(1)	Whether example is classified as in demand for the occupation (Y=yes, N=no)

This file contains the Software Skills examples, including hot and in-demand technologies, associated with O*NET-SOC occupations. The columns “Element ID” and “Element” classify the example in the O*NET Content Model hierarchy. This hierarchy is based on the United Nations Standard Products and Services Code (UNSPSC), version 260801, provided by the [United Nations Development Programme](https://www.undp.org/unspsc) [https://www.undp.org/unspsc].

The “Hot Technology” column indicates requirements frequently included across all employer job postings. A concise list of all hot technologies may be downloaded from [O*NET OnLine](https://www.onetonline.org/search/hot_tech/) [https://www.onetonline.org/search/hot_tech/].

The “In Demand” column indicates requirements frequently included in employer job postings for the particular occupation.

We welcome feedback on the Software Skills database. We accept suggestions for new software skills or occupation linkages via our [feedback process](https://www.onetcenter.org/t2_feedback.html) [https://www.onetcenter.org/t2_feedback.html]. Suggestions will be considered for a future update of the Software Skills database.

The file is displayed in six tab delimited fields with the columns named O*NET-SOC Code, Workplace Example, Element ID, Element Name, Hot Technology, and In Demand. The six fields are represented by one row. There are a total of 31,821 rows of data in this file.

For more information, see:

- [Hot Technologies and In Demand Technology Skills within the O*NET System](https://www.onetcenter.org/reports/Hot_Technologies_Demand.html) [https://www.onetcenter.org/reports/Hot_Technologies_Demand.html]
- [O*NET Center Tools and Technology Quality Control Processes](https://www.onetcenter.org/reports/T2_QC.html) [https://www.onetcenter.org/reports/T2_QC.html]

- [O*NET Tools and Technology: A Synopsis of Data Development Procedures](https://www.onetcenter.org/reports/T2Development.html) [https://www.onetcenter.org/reports/T2Development.html]
- [Identification of “Hot Technologies” within the O*NET® System](https://www.onetcenter.org/reports/Hot_Technologies.html) [https://www.onetcenter.org/reports/Hot_Technologies.html]
- [Tools and Technology Search](https://www.onetcenter.org/reports/T2_Search.html) [https://www.onetcenter.org/reports/T2_Search.html]

File Structure Changes:

Release Number	Description of Change
23.2	Added as a new file
23.3 - 27.0	No structure changes
27.1	“In Demand” column added
27.2 - 30.2	No structure changes
30.3	File name changed from “Technology Skills” to “Software Skills”
30.3	Columns “Example,” “Commodity Code,” “Commodity Title” renamed to “Workplace Example,” “Element ID,” “Element Name”

Data Example - Software Skills:

O*NET-SOC Code	Workplace Example	Element ID	Element Name	Hot Technology	In Demand
11-2011.00	Actuate BIRT	2.E.6.m	Business intelligence and data analysis software	N	N
11-2011.00	Adobe Acrobat	2.E.5.b	Document management software	Y	N
11-2011.00	Adobe Acrobat Reader	2.E.5.b	Document management software	N	N
11-2011.00	Adobe After Effects	2.E.4.c	Video creation and editing software	Y	N
11-2011.00	Adobe Creative Cloud software	2.E.4.b	Graphics or photo imaging software	Y	N

Essential Skills

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

File Name: Essential Skills.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
Data Value	Float(5,2)	Rating associated with the O*NET-SOC occupation
N	Integer(4)	Sample size
Standard Error	Float(7,4)	Standard Error
Lower CI Bound	Float(7,4)	Lower 95% confidence interval bound
Upper CI Bound	Float(7,4)	Upper 95% confidence interval bound
Recommend Suppress	Character(1)	Low precision indicator (Y=yes, N=no)
Not Relevant	Character(1)	Not relevant for the occupation (Y=yes, N=no)
Date	Character(7)	Date when data was updated
Domain Source	Character Varying(30)	Source of the data

This file contains the Content Model Essential Skill 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 17,880 rows of data in this file.

For more information, see:

- [O*NET Analyst Occupational Skills Ratings: Procedures Update](https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html) [https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html]

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Essential 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
49-3041.00	2.A.1.a	Reading Comprehension	IM	3.00	8	0.0000	3.0000	3.0000	N	n/a	08/2025	Analyst
49-3041.00	2.A.1.a	Reading Comprehension	LV	2.88	8	0.1250	2.6300	3.1200	N	N	08/2025	Analyst
49-3041.00	2.A.1.b	Active Listening	IM	3.12	8	0.1250	2.8800	3.3700	N	n/a	08/2025	Analyst
49-3041.00	2.A.1.b	Active Listening	LV	3.00	8	0.0000	3.0000	3.0000	N	N	08/2025	Analyst
49-3041.00	2.A.1.c	Writing	IM	2.88	8	0.1250	2.6300	3.1200	N	n/a	08/2025	Analyst
49-3041.00	2.A.1.c	Writing	LV	2.62	8	0.1830	2.2664	2.9836	N	N	08/2025	Analyst
49-3041.00	2.A.1.d	Speaking	IM	3.12	8	0.1250	2.8800	3.3700	N	n/a	08/2025	Analyst
49-3041.00	2.A.1.d	Speaking	LV	3.00	8	0.0000	3.0000	3.0000	N	N	08/2025	Analyst

Transferable Skills

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

File Name: Transferable Skills.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
Data Value	Float(5,2)	Rating associated with the O*NET-SOC occupation
N	Integer(4)	Sample size
Standard Error	Float(7,4)	Standard Error
Lower CI Bound	Float(7,4)	Lower 95% confidence interval bound
Upper CI Bound	Float(7,4)	Upper 95% confidence interval bound
Recommend Suppress	Character(1)	Low precision indicator (Y=yes, N=no)
Not Relevant	Character(1)	Not relevant for the occupation (Y=yes, N=no)
Date	Character(7)	Date when data was updated
Domain Source	Character Varying(30)	Source of the data

This file contains the Content Model Transferable Skill 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 44,700 rows of data in this file.

For more information, see:

- [O*NET Analyst Occupational Skills Ratings: Procedures Update](https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html) [https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html]

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Transferable 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
49-3041.00	2.B.1.a	Social Perceptiveness	IM	2.75	8	0.1637	2.4292	3.0708	N	n/a	08/2025	Analyst
49-3041.00	2.B.1.a	Social Perceptiveness	LV	2.38	8	0.1830	2.0164	2.7336	N	N	08/2025	Analyst
49-3041.00	2.B.1.b	Coordination	IM	2.75	8	0.1637	2.4292	3.0708	N	n/a	08/2025	Analyst
49-3041.00	2.B.1.b	Coordination	LV	2.50	8	0.1890	2.1296	2.8704	N	N	08/2025	Analyst
49-3041.00	2.B.1.c	Persuasion	IM	2.38	8	0.1830	2.0164	2.7336	N	n/a	08/2025	Analyst
49-3041.00	2.B.1.c	Persuasion	LV	2.25	8	0.1637	1.9292	2.5708	N	N	08/2025	Analyst
49-3041.00	2.B.1.d	Negotiation	IM	2.00	8	0.0000	2.0000	2.0000	N	n/a	08/2025	Analyst
49-3041.00	2.B.1.d	Negotiation	LV	1.50	8	0.1890	1.1296	1.8704	N	N	08/2025	Analyst

Knowledge, Abilities

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 (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
Data Value	Float(5,2)	Rating associated with the O*NET-SOC occupation
N	Integer(4)	Sample size
Standard Error	Float(7,4)	Standard Error
Lower CI Bound	Float(7,4)	Lower 95% confidence interval bound
Upper CI Bound	Float(7,4)	Upper 95% confidence interval bound
Recommend Suppress	Character(1)	Low precision indicator (Y=yes, N=no)
Not Relevant	Character(1)	Not relevant for the occupation (Y=yes, N=no)
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 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 59,004 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.1	Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, and Not Relevant
6.0 - 28.1	No structure changes
28.2	Standard Error, Lower CI Bound, Upper CI Bound expanded from 2 decimal places to 4
28.3 - 30.3	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
29-2011.00	2.C.8.b	Law and Government	IM	2.52	28	0.2879	1.9275	3.1090	N	n/a	08/2025	Incumbent
29-2011.00	2.C.8.b	Law and Government	LV	2.47	28	0.4408	1.5705	3.3792	N	N	08/2025	Incumbent
29-2011.00	2.C.9.a	Telecommunications	IM	2.30	28	0.1504	1.9912	2.6086	N	n/a	08/2025	Incumbent
29-2011.00	2.C.9.a	Telecommunications	LV	1.64	28	0.3761	0.8672	2.4105	N	N	08/2025	Incumbent
29-2011.00	2.C.9.b	Communications and Media	IM	1.80	28	0.2181	1.3530	2.2482	N	n/a	08/2025	Incumbent
29-2011.00	2.C.9.b	Communications and Media	LV	1.46	28	0.4430	0.5467	2.3648	N	N	08/2025	Incumbent
29-2011.00	2.C.10	Transportation	IM	1.75	27	0.1723	1.3918	2.1002	N	n/a	08/2025	Incumbent
29-2011.00	2.C.10	Transportation	LV	1.28	27	0.2805	0.7064	1.8596	N	N	08/2025	Incumbent

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 (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
Data Value	Float(5,2)	Rating associated with the O*NET-SOC occupation
N	Integer(4)	Sample size
Standard Error	Float(7,4)	Standard Error
Lower CI Bound	Float(7,4)	Lower 95% confidence interval bound
Upper CI Bound	Float(7,4)	Upper 95% confidence interval bound
Recommend Suppress	Character(1)	Low precision indicator (Y=yes, N=no)
Not Relevant	Character(1)	Not relevant for the occupation (Y=yes, N=no)
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 92,976 rows of data in this file.

For more information, see:

- [O*NET Analyst Occupational Ratings: Linkage Revisit](https://www.onetcenter.org/reports/LinkageRevisit.html) [https://www.onetcenter.org/reports/LinkageRevisit.html]
- [O*NET Analyst Occupational Abilities Ratings: Procedures Update](https://www.onetcenter.org/reports/AnalystProcUpdate.html) [https://www.onetcenter.org/reports/AnalystProcUpdate.html]
- [Updating Occupational Ability Profiles with O*NET Content Model Descriptors](https://www.onetcenter.org/reports/UpdateOAP.html) [https://www.onetcenter.org/reports/UpdateOAP.html]
- [Linking Client Assessment Profiles to O*NET Occupational Profiles Within the O*NET Ability Profiler](https://www.onetcenter.org/reports/AP_Linking.html) [https://www.onetcenter.org/reports/AP_Linking.html]

File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added

Release Number	Description of Change
5.1	Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, and Not Relevant
6.0 - 28.1	No structure changes
28.2	Standard Error, Lower CI Bound, Upper CI Bound expanded from 2 decimal places to 4
28.3 - 30.3	No structure changes

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 Suppress	Not Relevant	Date	Domain Source
53-3051.00	1.A.1.a.1	Oral Comprehension	IM	3.25	8	0.1637	2.9292	3.5708	N	n/a	08/2025	Analyst
53-3051.00	1.A.1.a.1	Oral Comprehension	LV	3.38	8	0.1830	3.0164	3.7336	N	N	08/2025	Analyst
53-3051.00	1.A.1.a.2	Written Comprehension	IM	2.75	8	0.1637	2.4292	3.0708	N	n/a	08/2025	Analyst
53-3051.00	1.A.1.a.2	Written Comprehension	LV	3.00	8	0.0000	3.0000	3.0000	N	N	08/2025	Analyst
53-3051.00	1.A.1.a.3	Oral Expression	IM	3.12	8	0.1250	2.8800	3.3700	N	n/a	08/2025	Analyst
53-3051.00	1.A.1.a.3	Oral Expression	LV	3.12	8	0.1250	2.8800	3.3700	N	N	08/2025	Analyst
53-3051.00	1.A.1.a.4	Written Expression	IM	2.75	8	0.1637	2.4292	3.0708	N	n/a	08/2025	Analyst
53-3051.00	1.A.1.a.4	Written Expression	LV	2.75	8	0.1637	2.4292	3.0708	N	N	08/2025	Analyst

Education, Experience, Training

Education

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

File Name: Education.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
Category	Integer(3)	Percent frequency category (<i>see Education Categories</i>)
Data Value	Float(5,2)	Rating associated with the O*NET-SOC occupation
N	Integer(4)	Sample size
Standard Error	Float(7,4)	Standard Error
Lower CI Bound	Float(7,4)	Lower 95% confidence interval bound
Upper CI Bound	Float(7,4)	Upper 95% confidence interval bound
Recommend Suppress	Character(1)	Low precision indicator (Y=yes, N=no)
Date	Character(7)	Date when data was updated
Domain Source	Character Varying(30)	Source of the data

This file contains the percent frequency data associated with Education 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 11,100 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Education:

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
33-9011.00	2.D.1	Required Level of Education	RL	1	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	2	65.38	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	3	19.23	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	4	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	5	11.54	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	6	3.85	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	7	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	8	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	9	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	10	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	11	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	2.D.1	Required Level of Education	RL	12	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert

Education Categories

Purpose: Provide descriptions of the Education percent frequency categories.

File Name: Education Categories.txt

Structure and Description:

Column	Type	Column Content
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
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 content area. Categories for the Required Level of Education (RL) scale are included.

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 12 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Education Categories:

Element ID	Element Name	Scale ID	Category	Category Description
2.D.1	Required Level of Education	RL	1	Less than a High School Diploma
2.D.1	Required Level of Education	RL	2	High School Diploma - or the equivalent (for example, GED)
2.D.1	Required Level of Education	RL	3	Post-Secondary Certificate - awarded for training completed after high school (for example, in agriculture or natural resources, computer services, personal or culinary services, engineering technologies, healthcare, construction trades, mechanic and repair technologies, or precision production)
2.D.1	Required Level of Education	RL	4	Some College Courses
2.D.1	Required Level of Education	RL	5	Associate's Degree (or other 2-year degree)
2.D.1	Required Level of Education	RL	6	Bachelor's Degree
2.D.1	Required Level of Education	RL	7	Post-Baccalaureate Certificate - awarded for completion of an organized program of study; designed for people who have completed a Baccalaureate degree but do not meet the requirements of academic degrees carrying the title of Master.
2.D.1	Required Level of Education	RL	8	Master's Degree
2.D.1	Required Level of Education	RL	9	Post-Master's Certificate - awarded for completion of an organized program of study; designed for people who have completed a Master's degree but do not meet the requirements of academic degrees at the doctoral level.
2.D.1	Required Level of Education	RL	10	First Professional Degree - awarded for completion of a program that: requires at least 2 years of college work before entrance into the program, includes a total of at least 6 academic years of work to complete, and provides all remaining academic requirements to begin practice in a profession.
2.D.1	Required Level of Education	RL	11	Doctoral Degree
2.D.1	Required Level of Education	RL	12	Post-Doctoral Training

Training and Experience

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

File Name: Training and Experience.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
Category	Integer(3)	Percent frequency category (<i>see Training and Experience Categories</i>)
Data Value	Float(5,2)	Rating associated with the O*NET-SOC occupation
N	Integer(4)	Sample size
Standard Error	Float(7,4)	Standard Error
Lower CI Bound	Float(7,4)	Lower 95% confidence interval bound
Upper CI Bound	Float(7,4)	Upper 95% confidence interval bound
Recommend Suppress	Character(1)	Low precision indicator (Y=yes, N=no)
Date	Character(7)	Date when data was updated
Domain Source	Character Varying(30)	Source of the data

This file contains the percent frequency data associated with 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 26,025 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - 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
33-9011.00	3.A.1	Related Work Experience	RW	1	15.38	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	2	3.85	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	3	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	4	11.54	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	5	11.54	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	6	46.15	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	7	11.54	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	8	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	9	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	10	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
33-9011.00	3.A.1	Related Work Experience	RW	11	0.00	26	n/a	n/a	n/a	n/a	08/2025	Occupational Expert

Training and Experience Categories

Purpose: Provide descriptions of the Training and Experience percent frequency categories.

File Name: Training and Experience Categories.txt

Structure and Description:

Column	Type	Column Content
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
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 Training and Experience content area. Categories for the following scales are included: 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 29 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Training and Experience Categories:

Element ID	Element Name	Scale ID	Category	Category Description
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

Job Zones

Purpose: Provide a mapping of O*NET-SOC 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 (<i>see Occupation Data</i>)
Job Zone	Integer(1)	Job Zone number (<i>see Job Zone Reference</i>)
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.

The file 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 923 rows of data in this file.

For more information, see:

- [Procedures for O*NET Job Zone Assignment](https://www.onetcenter.org/reports/JobZoneProcedure.html) [https://www.onetcenter.org/reports/JobZoneProcedure.html]
- [Procedures for O*NET Job Zone Assignment: Updated to Include Procedures for Developing Preliminary Job Zones for New O*NET-SOC Occupations](https://www.onetcenter.org/reports/JobZoneProcedureUpdate.html) [https://www.onetcenter.org/reports/JobZoneProcedureUpdate.html]
- [O*NET Job Zones in Transition: A New Four-Level Framework Reflecting the Increased Skill Demands of Occupations](https://www.onetcenter.org/reports/Job_Zone_Transition.html) [https://www.onetcenter.org/reports/Job_Zone_Transition.html]

File Structure Changes:

Release Number	Description of Change
5.0	No structure changes
5.1	Date and Domain Source columns added
6.0 - 30.3	No structure changes

Data Example - Job Zones:

O*NET-SOC Code	Job Zone	Date	Domain Source
15-1211.00	4	05/2026	Analyst
37-1011.00	2	02/2026	Analyst
45-2093.00	2	02/2026	Analyst
45-2021.00	2	02/2026	Analyst
45-3031.00	2	02/2026	Analyst
39-6012.00	2	02/2026	Analyst

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(60)	Job Zone name/zone
Experience	Character Varying(500)	Job Zone experience requirements
Education	Character Varying(500)	Job Zone educational requirements
Job Training	Character Varying(500)	Job Zone training requirements
Examples	Character Varying(500)	Job Zone examples
SVP Range	Character Varying(25)	Specific vocational preparation range

This file describes the O*NET Job Zones, which are groups of occupations that need the same level of experience, education, and training.

The file is displayed 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 a total of 4 rows of data in this file.

For more information, see:

- [Procedures for O*NET Job Zone Assignment](https://www.onetcenter.org/reports/JobZoneProcedure.html) [https://www.onetcenter.org/reports/JobZoneProcedure.html]
- [Procedures for O*NET Job Zone Assignment: Updated to Include Procedures for Developing Preliminary Job Zones for New O*NET-SOC Occupations](https://www.onetcenter.org/reports/JobZoneProcedureUpdate.html) [https://www.onetcenter.org/reports/JobZoneProcedureUpdate.html]
- [O*NET Job Zones in Transition: A New Four-Level Framework Reflecting the Increased Skill Demands of Occupations](https://www.onetcenter.org/reports/Job_Zone_Transition.html) [https://www.onetcenter.org/reports/Job_Zone_Transition.html]

File Structure Changes:

Release Number	Description of Change
5.0 - 30.3	No structure changes

Data Example – Job Zone Reference:

Job Zone	Name	Experience	Education	Job Training	Examples	SVP Range
2	Job Zone 1-2: Very Little to Some Preparation Needed	Some occupations may need little or no previous experience; others require several months to a year of experience. For example, landscaping and groundskeeping workers might require very little training or previous experience, while agricultural equipment operators can benefit from on-the job training.	Usually requires a high school diploma or GED, though some occupations may not.	Ranges from a few days to one year of on-the-job training.	These occupations involve following instructions and often involve using your knowledge and skills to help others. Examples include dishwashers, landscaping and groundskeeping workers, counter and rental clerks, dental laboratory technicians, and security guards.	(Below 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 hydroelectric production managers, desktop publishers, electricians, agricultural technicians, barbers, court reporters and simultaneous captioners, and medical assistants.	(6.0 to < 7.0)
4	Job Zone Four: Considerable Preparation Needed	A considerable amount of work-related skill, knowledge, or experience is needed for these occupations. For example, an accountant must complete four years of college and work for several years in accounting to be considered qualified.	Most of these occupations require a four-year bachelor's degree, but some do not.	Employees in these occupations usually need several years of work-related experience, on-the-job training, and/or vocational training.	Many of these occupations involve coordinating, supervising, managing, or training others. Examples include real estate brokers, sales managers, database administrators, graphic designers, conservation scientists, art directors, and cost estimators.	(7.0 to < 8.0)

Career Interests

Career Interest Types

Purpose: Provide career interest type (RIASEC) high-point codes and numeric profile data for each O*NET-SOC occupation.

File Name: Career Interest Types.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
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 career interest type (RIASEC) high-point codes and numeric profile data for each O*NET-SOC occupation.

Career Interest Type ratings are presented as two scales: OI reports the RIASEC level of each interest and IH presents “high-point codes”, the numbers of the RIASEC scales for the first, second and/or third highest ratings.

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

The file 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 8,307 rows of data in this file.

For more information, see:

- [Updates to Occupational Interest Profiles and High-Point Codes for the O*NET Program Using the O*NET 30.0 Database](https://www.onetcenter.org/reports/OIP_Update_30.html) [https://www.onetcenter.org/reports/OIP_Update_30.html]
- [Using Machine Learning to Develop Occupational Interest Profiles and High-Point Codes for the O*NET System](https://www.onetcenter.org/reports/ML_OIPs.html) [https://www.onetcenter.org/reports/ML_OIPs.html]

- [Career Returns within the O*NET Interest Profiler Tools](https://www.onetcenter.org/reports/IP_Career_Returns.html) [https://www.onetcenter.org/reports/IP_Career_Returns.html]
- [Development of an O*NET® Mini Interest Profiler \(Mini-IP\) for Mobile Devices: Psychometric Characteristics](https://www.onetcenter.org/reports/Mini-IP.html) [https://www.onetcenter.org/reports/Mini-IP.html]
- [Examining the Efficacy of Emoji Anchors for the O*NET Interest Profiler Short Form](https://www.onetcenter.org/reports/IP_Emoji.html) [https://www.onetcenter.org/reports/IP_Emoji.html]
- [O*NET Interest Profiler Short Form Psychometric Characteristics: Summary](https://www.onetcenter.org/reports/IPSF_Psychometric.html) [https://www.onetcenter.org/reports/IPSF_Psychometric.html]

File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.1 - 30.2	No structure changes
30.3	File name changed from “Interests” to “Career Interest Types”

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Domain Source
43-4041.00	1.B.1.a	Realistic	OI	1.00	02/2026	Machine Learning/Expert
Data Example - Career Interest Types:						
43-4041.00	1.B.1.b	Investigative	OI	1.87	02/2026	Machine Learning/Expert
43-4041.00	1.B.1.c	Artistic	OI	1.00	02/2026	Machine Learning/Expert
43-4041.00	1.B.1.d	Social	OI	3.39	02/2026	Machine Learning/Expert
43-4041.00	1.B.1.e	Enterprising	OI	4.48	02/2026	Machine Learning/Expert
43-4041.00	1.B.1.f	Conventional	OI	7.00	02/2026	Machine Learning/Expert
43-4041.00	1.B.1.g	First Interest High-Point	IH	6.00	02/2026	Machine Learning/Expert
43-4041.00	1.B.1.h	Second Interest High-Point	IH	5.00	02/2026	Machine Learning/Expert
43-4041.00	1.B.1.i	Third Interest High-Point	IH	4.00	02/2026	Machine Learning/Expert
29-2034.00	1.B.1.a	Realistic	OI	5.90	02/2026	Machine Learning/Expert
29-2034.00	1.B.1.b	Investigative	OI	4.88	02/2026	Machine Learning/Expert
29-2034.00	1.B.1.c	Artistic	OI	1.00	02/2026	Machine Learning/Expert
29-2034.00	1.B.1.d	Social	OI	3.41	02/2026	Machine Learning/Expert
29-2034.00	1.B.1.e	Enterprising	OI	1.00	02/2026	Machine Learning/Expert
29-2034.00	1.B.1.f	Conventional	OI	5.08	02/2026	Machine Learning/Expert
29-2034.00	1.B.1.g	First Interest High-Point	IH	1.00	02/2026	Machine Learning/Expert
29-2034.00	1.B.1.h	Second Interest High-Point	IH	6.00	02/2026	Machine Learning/Expert
29-2034.00	1.B.1.i	Third Interest High-Point	IH	2.00	02/2026	Machine Learning/Expert

Specific Interest Areas

Purpose: Provide specific interest area numeric profile data and display rankings for each O*NET-SOC occupation.

File Name: Specific Interest Areas.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
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 specific interest area numeric profile data and display rankings for each O*NET-SOC occupation.

Specific Interest Area ratings are presented as two scales: OI reports how characteristic each interest area is to the occupation, and DS reports the display order used in O*NET OnLine.

The file 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 73,062 rows of data in this file.

For more information, see:

- [Updating Vocational Interests Information for the O*NET Content Model](https://www.onetcenter.org/reports/Voc_Interests.html) [https://www.onetcenter.org/reports/Voc_Interests.html]

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Specific Interest Areas:

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Domain Source
43-4041.00	1.B.3.a	Mechanics/Electronics	DS	0.00	05/2026	AI/Expert
43-4041.00	1.B.3.a	Mechanics/Electronics	OI	1.03	05/2026	AI/Expert
43-4041.00	1.B.3.b	Construction/Woodwork	DS	0.00	05/2026	AI/Expert
43-4041.00	1.B.3.b	Construction/Woodwork	OI	1.00	05/2026	AI/Expert
43-4041.00	1.B.3.c	Transportation/Machine Operation	DS	0.00	05/2026	AI/Expert
43-4041.00	1.B.3.c	Transportation/Machine Operation	OI	1.00	05/2026	AI/Expert
43-4041.00	1.B.3.d	Physical/Manual Labor	DS	0.00	05/2026	AI/Expert
43-4041.00	1.B.3.d	Physical/Manual Labor	OI	1.00	05/2026	AI/Expert
43-4041.00	1.B.3.e	Protective Service	DS	0.00	05/2026	AI/Expert
29-2034.00	1.B.3.a	Mechanics/Electronics	DS	0.00	05/2026	AI/Expert
29-2034.00	1.B.3.a	Mechanics/Electronics	OI	1.87	05/2026	AI/Expert
29-2034.00	1.B.3.b	Construction/Woodwork	DS	0.00	05/2026	AI/Expert
29-2034.00	1.B.3.b	Construction/Woodwork	OI	1.00	05/2026	AI/Expert
29-2034.00	1.B.3.c	Transportation/Machine Operation	DS	0.00	05/2026	AI/Expert
29-2034.00	1.B.3.c	Transportation/Machine Operation	OI	1.43	05/2026	AI/Expert
29-2034.00	1.B.3.d	Physical/Manual Labor	DS	0.00	05/2026	AI/Expert
29-2034.00	1.B.3.d	Physical/Manual Labor	OI	2.57	05/2026	AI/Expert
29-2034.00	1.B.3.e	Protective Service	DS	0.00	05/2026	AI/Expert

Career Interest Type Keywords

Purpose: Provide action and object keywords for each career interest type (RIASEC).

File Name: Career Interest Type Keywords.txt

Structure and Description:

Column	Type	Column Content
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Keyword	Character Varying(150)	Relevant interest keyword
Keyword Type	Character Varying(20)	“Action” or “Object”

This file contains action and object keywords for each career interest type (RIASEC).

The file is displayed in four tab delimited fields with the columns named Element ID, Element Name, Keyword, and Keyword Type. The four fields are represented by one row. There are a total of 75 rows of data in this file.

For more information, see:

- [Updating Vocational Interests Information for the O*NET Content Model](https://www.onetcenter.org/reports/Voc_Interests.html) [https://www.onetcenter.org/reports/Voc_Interests.html]

File Structure Changes:

Release Number	Description of Change
27.2	Added as a new file
27.3 - 30.2	No structure changes
30.3	File name changed from “RIASEC Keywords” to “Career Interest Type Keywords”

Data Example - Career Interest Type Keywords:

Element ID	Element Name	Keyword	Keyword Type
1.B.1.a	Realistic	Build	Action
1.B.1.a	Realistic	Drive	Action
1.B.1.a	Realistic	Install	Action
1.B.1.a	Realistic	Maintain	Action
1.B.1.a	Realistic	Repair	Action

Specific Interest Areas to Career Interest Types

Purpose: Provide linkages between each specific interest area to relevant career interest types (RIASEC).

File Name: Specific Interest Areas to Career Interest Types.txt

Structure and Description:

Column	Type	Column Content
Specific Interest Areas Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Specific Interest Areas Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Career Interest Types Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Career Interest Types Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)

This file contains linkages between each specific interest area to relevant career interest types (RIASEC).

The file is displayed in four tab delimited fields with the columns named Specific Interest Areas Element ID, Specific Interest Areas Element Name, Career Interest Types Element ID, and Career Interest Types Element Name. The four fields are represented by one row. There are a total of 53 rows of data in this file.

For more information, see:

- [Updating Vocational Interests Information for the O*NET Content Model](https://www.onetcenter.org/reports/Voc_Interests.html) [https://www.onetcenter.org/reports/Voc_Interests.html]

File Structure Changes:

Release Number	Description of Change
27.2	Added as a new file
27.3 - 30.2	No structure changes
30.3	File name changed from “Basic Interests to RIASEC” to “Specific Interest Areas to Career Interest Types”
30.3	Columns “Basic Interests Element ID,” “Basic Interests Element Name,” “RIASEC Element ID,” “RIASEC Element Name” renamed to “Specific Interest Areas Element ID,” “Specific Interest Areas Element ID,” “Career Interest Types Element ID,” “Career Interest Types Element ID”

Data Example - Specific Interest Areas to Career Interest Types:

Specific Interest Areas Element ID	Specific Interest Areas Element Name	Career Interest Types Element ID	Career Interest Types Element Name
1.B.3.a	Mechanics/Electronics	1.B.1.a	Realistic
1.B.3.b	Construction/Woodwork	1.B.1.a	Realistic
1.B.3.c	Transportation/Machine Operation	1.B.1.a	Realistic
1.B.3.d	Physical/Manual Labor	1.B.1.a	Realistic
1.B.3.e	Protective Service	1.B.1.a	Realistic

Interests Illustrative Activities

Purpose: Provide illustrative work activities related to the career interest types and specific interest areas.

File Name: Interests Illustrative Activities.txt

Structure and Description:

Column	Type	Column Content
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Interest Type	Character Varying(20)	“Career Type” or “Specific Area”
Activity	Character Varying(150)	Illustrative work activity

This file contains illustrative work activities related to the career interest types and specific interest areas.

The file is displayed in four tab delimited fields with the columns named Element ID, Element Name, Interest Type, and Activity. The four fields are represented by one row. There are a total of 188 rows of data in this file.

For more information, see:

- [Updating Vocational Interests Information for the O*NET Content Model](https://www.onetcenter.org/reports/Voc_Interests.html) [https://www.onetcenter.org/reports/Voc_Interests.html]

File Structure Changes:

Release Number	Description of Change
27.2	Added as a new file
27.3 - 30.3	No structure changes

Data Example - Interests Illustrative Activities:

Element ID	Element Name	Interest Type	Activity
1.B.1.a	Realistic	Career Type	Build kitchen cabinets.
1.B.1.a	Realistic	Career Type	Drive a truck to deliver packages to offices and homes.
1.B.1.a	Realistic	Career Type	Put out forest fires.
1.B.1.a	Realistic	Career Type	Repair household appliances.
1.B.1.b	Investigative	Career Type	Develop a new medicine.

Interests Illustrative Occupations

Purpose: Provide illustrative occupations linked to the career interest types and specific interest areas.

File Name: Interests Illustrative Occupations.txt

Structure and Description:

Column	Type	Column Content
Element ID	Character Varying(20)	Content Model Outline Position (see Content Model Reference)
Element Name	Character Varying(150)	Content Model Element Name (see Content Model Reference)
Interest Type	Character Varying(20)	“Career Type” or “Specific Area”
O*NET-SOC Code	Character(10)	O*NET-SOC Code (see Occupation Data)

This file contains illustrative occupations linked to the career interest types and specific interest areas. For occupation-specific ratings, see the [Career Interest Types](#) and [Specific Interest Areas](#) files.

The file is displayed in four tab delimited fields with the columns named Element ID, Element Name, Interest Type, and O*NET-SOC Code. The four fields are represented by one row. There are a total of 186 rows of data in this file.

For more information, see:

- [Updating Vocational Interests Information for the O*NET Content Model](https://www.onetcenter.org/reports/Voc_Interests.html) [https://www.onetcenter.org/reports/Voc_Interests.html]

File Structure Changes:

Release Number	Description of Change
27.2	Added as a new file
27.3 - 30.3	No structure changes

Data Example - Interests Illustrative Occupations:

Element ID	Element Name	Interest Type	O*NET-SOC Code
1.B.1.a	Realistic	Career Type	17-3024.01
1.B.1.a	Realistic	Career Type	45-2091.00
1.B.1.a	Realistic	Career Type	47-2031.00
1.B.1.a	Realistic	Career Type	53-3052.00
1.B.1.b	Investigative	Career Type	19-1029.04

Work Styles

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 (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
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 Work Styles Impact ratings and Distinctiveness Rank assignments for each O*NET-SOC occupation.

Work Styles ratings are presented as two scales. WI reports the Impact rating of each Work Style on performance of an occupation's work activities and in relevant work contexts, from -3.00 (very detrimental) to +3.00 (very beneficial). DR reports the "distinctiveness rank" of a Work Style for an occupation, which presents up to 10 beneficial Work Styles which distinguish an occupation from others. A DR rating of 0.00 indicates the Work Style is not part of the ranked list.

The file 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 37,422 rows of data in this file.

For more information, see:

- [Updating Higher-order Work Style Dimensions in the O*NET Work Styles Taxonomy](https://www.onetcenter.org/reports/Higher_Order_Styles.html) [https://www.onetcenter.org/reports/Higher_Order_Styles.html]
- [Revisiting the Work Styles Domain of the O*NET Content Model](https://www.onetcenter.org/reports/Work_Styles_New.html) [https://www.onetcenter.org/reports/Work_Styles_New.html]
- [Using a Hybrid Artificial Intelligence-Expert Method to Develop Work Style Ratings for the O*NET Database](https://www.onetcenter.org/reports/Hybrid_AI_Ratings.html) [https://www.onetcenter.org/reports/Hybrid_AI_Ratings.html]

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

Release Number	Description of Change
6.0 - 28.1	No structure changes
28.2	Standard Error, Lower CI Bound, Upper CI Bound expanded from 2 decimal places to 4
28.3 - 30.0	No structure changes
30.1	Columns removed for N, Standard Error, Lower CI Bound, Upper CI Bound, and Recommend Suppress
30.2 - 30.3	No structure changes

Data Example - Work Styles:

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Domain Source
29-1141.01	1.D.1.a	Innovation	DR	0.00	12/2025	AI/Expert
29-1141.01	1.D.1.a	Innovation	WI	1.10	12/2025	AI/Expert
29-1141.01	1.D.1.b	Achievement Orientation	DR	0.00	12/2025	AI/Expert
29-1141.01	1.D.1.b	Achievement Orientation	WI	1.98	12/2025	AI/Expert
29-1141.01	1.D.1.c	Intellectual Curiosity	DR	0.00	12/2025	AI/Expert

Tasks

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 (<i>see Occupation Data</i>)
Task ID	Integer(8)	Identifies each task
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.

The “Task Type” column identifies two categories of tasks:

- **Core** — tasks that are critical to the occupation. The criteria for these tasks are (a) relevance $\geq 67\%$ and (b) a mean importance rating of ≥ 3.0 .
- **Supplemental** — tasks that are less relevant and/or important to the occupation. Two sets of tasks are included in this category: (a) tasks rated $\geq 67\%$ on relevance but < 3.0 on importance, and (b) tasks rated $< 67\%$ on relevance, regardless of mean importance.

The file is displayed in seven tab delimited fields with the columns named O*NET-SOC Code, Task ID, Task, Task Type, Incumbents Responding, Date, and Domain Source. The seven fields are represented by one row. There are a total of 18,796 rows of data in this file.

For more information, see:

- [Summary of Procedures for O*NET Task Updating and New Task Generation](https://www.onetcenter.org/reports/TaskUpdating.html) [https://www.onetcenter.org/reports/TaskUpdating.html]

File Structure Changes:

Release Number	Description of Change
13.0	Added as a new file
14.0 - 30.3	No structure changes

Data Example - Task Statements:

O*NET-SOC Code	Task ID	Task	Task Type	Incumbents Responding	Date	Domain Source
29-1212.00	22689	Administer emergency cardiac care for life-threatening heart problems, such as cardiac arrest and heart attack.	n/a	n/a	12/2025	Analyst
29-1212.00	22690	Advise patients and community members concerning diet, activity, hygiene, or disease prevention.	n/a	n/a	12/2025	Analyst
29-1212.00	22691	Answer questions that patients have about their health and well-being.	n/a	n/a	12/2025	Analyst
29-1212.00	22692	Calculate valve areas from blood flow velocity measurements.	n/a	n/a	12/2025	Analyst
29-1212.00	22693	Compare measurements of heart wall thickness and chamber sizes to standards to identify abnormalities, using the results of an echocardiogram.	n/a	n/a	12/2025	Analyst
29-1212.00	22694	Conduct electrocardiogram (EKG), phonocardiogram, echocardiogram, or other cardiovascular tests to record patients' cardiac activity, using specialized electronic test equipment, recording devices, or laboratory instruments.	n/a	n/a	12/2025	Analyst
29-1212.00	22695	Conduct exercise electrocardiogram tests to monitor cardiovascular activity under stress.	n/a	n/a	12/2025	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 (<i>see Occupation Data</i>)
Task ID	Integer(8)	Identifies each task (<i>see Task Statements</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
Category	Integer(3)	Percent frequency category (<i>see Task Categories</i>)
Data Value	Float(5,2)	Rating associated with the O*NET-SOC occupation
N	Integer(4)	Sample size
Standard Error	Float(7,4)	Standard Error
Lower CI Bound	Float(7,4)	Lower 95% confidence interval bound
Upper CI Bound	Float(7,4)	Upper 95% confidence interval bound
Recommend Suppress	Character(1)	Low precision indicator (Y=yes, N=no)
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 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 161,559 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
13.0	Added as a new file
14.0 - 28.1	No structure changes
28.2	Standard Error, Lower CI Bound, Upper CI Bound expanded from 2 decimal places to 4
28.3 - 30.3	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
53-3053.00	23756	FT	1	0.00	61	0.0000	n/a	n/a	N	08/2025	Incumbent
53-3053.00	23756	FT	2	0.24	61	0.1717	0.0546	1.0082	N	08/2025	Incumbent
53-3053.00	23756	FT	3	4.25	61	2.8703	1.0727	15.3926	N	08/2025	Incumbent
53-3053.00	23756	FT	4	4.89	61	3.7881	0.9999	20.7683	N	08/2025	Incumbent
53-3053.00	23756	FT	5	83.26	61	11.2185	49.8527	96.1377	N	08/2025	Incumbent
53-3053.00	23756	FT	6	0.34	61	0.2578	0.0721	1.5488	N	08/2025	Incumbent
53-3053.00	23756	FT	7	7.02	61	7.1452	0.8384	40.2745	N	08/2025	Incumbent
53-3053.00	23756	IM	n/a	4.84	62	0.0722	4.6956	4.9844	N	08/2025	Incumbent
53-3053.00	23756	RT	n/a	100.00	66	0.0000	n/a	n/a	N	08/2025	Incumbent

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 (<i>see Scales Reference</i>)
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 - 30.3	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

Emerging Tasks

Purpose: Provide emerging task data associated with some O*NET-SOC occupations.

File Name: Emerging Tasks.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Task	Character Varying(1000)	New or revised task associated with an occupation
Category	Character Varying(8)	“New” or “Revision”
Original Task ID	Integer(8)	Task ID referencing original task (<i>see Task Statements</i>)
Original Task	Character Varying(1000)	Original task being revised (<i>see Task Statements</i>)
Date	Character(7)	Date when data was updated
Domain Source	Character Varying(30)	Source of the data

This file contains new and revised task statements proposed for future data collection. Statements are developed by analysts from sources including feedback from surveyed job incumbents, research into emerging technologies, and information provided by professional associations.

The file is displayed in seven tab delimited fields with the columns named O*NET-SOC Code, Task, Category, Original Task ID, Original Task, Date, and Domain Source. The seven fields are represented by one row. There are a total of 328 rows of data in this file.

For more information, see:

- [Identification of Emerging Tasks in the O*NET System: A Revised Approach](https://www.onetcenter.org/reports/EmergingTasks_RevisedApproach.html) [https://www.onetcenter.org/reports/EmergingTasks_RevisedApproach.html]
- [Adding Drone-Specific Tasks to the O*NET Database: Initial Identification of Emerging Tasks using ChatGPT](https://www.onetcenter.org/reports/Drone_Tasks.html) [https://www.onetcenter.org/reports/Drone_Tasks.html]

File Structure Changes:

Release Number	Description of Change
20.1	Added as a new file
20.2 - 28.3	No structure changes
29.0	Write-in Total column removed
29.1 - 30.3	No structure changes

Data Example - Emerging Tasks:

O*NET-SOC Code	Task	Category	Original Task ID	Original Task	Date	Domain Source
39-9031.00	Adjust workout programs and provide variations to address injuries or muscle soreness.	New	n/a	n/a	08/2025	Occupational Expert
29-2011.00	Conduct blood typing and antibody screening.	New	n/a	n/a	08/2025	Incumbent

Work Activities

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 (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
Data Value	Float(5,2)	Rating associated with the O*NET-SOC occupation
N	Integer(4)	Sample size
Standard Error	Float(7,4)	Standard Error
Lower CI Bound	Float(7,4)	Lower 95% confidence interval bound
Upper CI Bound	Float(7,4)	Upper 95% confidence interval bound
Recommend Suppress	Character(1)	Low precision indicator (Y=yes, N=no)
Not Relevant	Character(1)	Not relevant for the occupation (Y=yes, N=no)
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 73,308 rows of data in this file.

For more information, see:

- [O*NET Work Activities Project Technical Report](https://www.onetcenter.org/reports/DWA_2014.html) [https://www.onetcenter.org/reports/DWA_2014.html]

File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.1	Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, and Not Relevant
6.0 - 28.1	No structure changes
28.2	Standard Error, Lower CI Bound, Upper CI Bound expanded from 2 decimal places to 4
28.3 - 30.3	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
17-2121.00	4.A.1.a.1	Getting Information	IM	4.22	18	n/a	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
17-2121.00	4.A.1.a.1	Getting Information	LV	5.17	18	n/a	n/a	n/a	n/a	N	08/2025	Occupational Expert
17-2121.00	4.A.1.a.2	Monitoring Processes, Materials, or Surroundings	IM	3.12	17	n/a	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
17-2121.00	4.A.1.a.2	Monitoring Processes, Materials, or Surroundings	LV	3.94	17	n/a	n/a	n/a	n/a	N	08/2025	Occupational Expert
17-2121.00	4.A.1.b.1	Identifying Objects, Actions, and Events	IM	3.83	18	n/a	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
17-2121.00	4.A.1.b.1	Identifying Objects, Actions, and Events	LV	5.00	18	n/a	n/a	n/a	n/a	N	08/2025	Occupational Expert
17-2121.00	4.A.1.b.2	Inspecting Equipment, Structures, or Materials	IM	3.76	17	n/a	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
17-2121.00	4.A.1.b.2	Inspecting Equipment, Structures, or Materials	LV	4.35	17	n/a	n/a	n/a	n/a	N	08/2025	Occupational Expert
17-2121.00	4.A.1.b.3	Estimating the Quantifiable Characteristics of Products, Events, or Information	IM	3.17	18	n/a	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
17-2121.00	4.A.1.b.3	Estimating the Quantifiable Characteristics of Products, Events, or Information	LV	3.89	18	n/a	n/a	n/a	n/a	N	08/2025	Occupational Expert
17-2121.00	4.A.2.a.1	Judging the Qualities of Objects, Services, or People	IM	3.17	18	n/a	n/a	n/a	n/a	n/a	08/2025	Occupational Expert
17-2121.00	4.A.2.a.1	Judging the Qualities of Objects, Services, or People	LV	3.94	18	n/a	n/a	n/a	n/a	N	08/2025	Occupational Expert

GWAs to IWAs

Purpose: Provide each Intermediate Work Activity.

File Name: GWAs to IWAs.txt

Structure and Description:

Column	Type	Column Content
GWA Element ID	Character Varying(20)	Identifies each General Work Activity (see Content Model Reference)
IWA Element ID	Character Varying(20)	Identifies each Intermediate Work Activity (see Content Model Reference)
IWA Element Name	Character Varying(150)	Intermediate Work Activity statement (see Content Model Reference)

This file contains each Intermediate Work Activity and its corresponding General Work Activity element ID. Every IWA is linked to exactly one General Work Activity from the O*NET Content Model. IWAs are linked to one or more DWAs; see the [GWAs to IWAs to DWAs](#) file for these links. All levels of the Work Activities hierarchy can also be found in the [Content Model Reference](#) file.

The file is displayed in three tab delimited fields with the columns named GWA Element ID, IWA Element ID, and IWA Element Name. The three fields are represented by one row. There are a total of 332 rows of data in this file.

For more information, see:

- [O*NET Work Activities Project Technical Report](https://www.onetcenter.org/reports/DWA_2014.html) [https://www.onetcenter.org/reports/DWA_2014.html]

File Structure Changes:

Release Number	Description of Change
18.1	Added as a new file
19.0 - 30.2	No structure changes
30.3	File name changed from "IWA Reference" to "GWAs to IWAs"
30.3	Columns "Element ID," "Element Name," "IWA ID," "IWA Title" renamed to "GWA Element ID," "GWA Element Name," "IWA Element ID," "IWA Element Name"

Data Example - GWAs to IWAs:

GWA Element ID	IWA Element ID	IWA Element Name
4.A.1.a.1	4.A.1.a.1.a	Study details of artistic productions.
4.A.1.a.1	4.A.1.a.1.b	Read documents or materials to inform work processes.
4.A.2.b.2	4.A.2.b.2.n	Develop public or community health programs.
4.A.4.c.2	4.A.4.c.2.a	Perform recruiting or hiring activities.

GWAs to IWAs to DWAs

Purpose: Provide each Detailed Work Activity.

File Name: GWAs to IWAs to DWAs.txt

Structure and Description:

Column	Type	Column Content
GWA Element ID	Character Varying(20)	Identifies each General Work Activity (see Content Model Reference)
IWA Element ID	Character Varying(20)	Identifies each Intermediate Work Activity (see Content Model Reference)
DWA Element ID	Character Varying(20)	Identifies each Detailed Work Activity (see Content Model Reference)
DWA Element Name	Character Varying(150)	Detailed Work Activity statement (see Content Model Reference)

This file contains each Detailed Work Activity and its corresponding GWA and IWA identifiers. Each DWA is linked to exactly one IWA, which in turn is linked to exactly one Work Activity from the O*NET Content Model. All levels of the Work Activities hierarchy can also be found in the [Content Model Reference](#) file. Each DWA is linked to multiple task statements; see [Tasks to DWAs](#) for these links.

The file is displayed in four tab delimited fields with the columns named GWA Element ID, IWA Element ID, DWA Element ID, and DWA Element Name. The four fields are represented by one row. There are a total of 2,087 rows of data in this file.

For more information, see:

- [O*NET Work Activities Project Technical Report](https://www.onetcenter.org/reports/DWA_2014.html) [https://www.onetcenter.org/reports/DWA_2014.html]
- [Ranking Detailed Work Activities \(DWAs\) Within O*NET® Occupational Profiles](https://www.onetcenter.org/reports/DWA_Ranking.html) [https://www.onetcenter.org/reports/DWA_Ranking.html]

File Structure Changes:

Release Number	Description of Change
18.1	Added as a new file
19.0 - 30.2	No structure changes
30.3	File name changed from “DWA Reference” to “GWAs to IWAs to DWAs”
30.3	Columns “Element ID,” “Element Name,” “IWA ID,” “IWA Title,” “DWA ID,” “DWA Title” renamed to “GWA Element ID,” “GWA Element Name,” “IWA Element ID,” “IWA Element Name,” “DWA Element ID,” “DWA Element Name”

Data Example - GWAs to IWAs to DWAs:

GWA Element ID	IWA Element ID	DWA Element ID	DWA Element Name
4.A.1.a.1	4.A.1.a.1.a	4.A.1.a.1.a.1	Review art or design materials.
4.A.1.a.1	4.A.1.a.1.a	4.A.1.a.1.a.2	Study details of musical compositions.
4.A.4.b.6	4.A.4.b.6.i	4.A.4.b.6.i.3	Advise others on health and safety issues.

Tasks to DWAs

Purpose: Provide a mapping of task statements to Detailed Work Activities.

File Name: Tasks to DWAs.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Task ID	Integer(8)	Identifies each task (<i>see Task Statements</i>)
DWA Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Date	Character(7)	Date when data was updated
Domain Source	Character Varying(30)	Source of the data

This file maps each Detailed Work Activity (DWA) to the task statements, and consequently to the O*NET-SOC occupations, requiring that activity. Each DWA is mapped to multiple task statements, and each referenced task statement is mapped to one or more DWAs.

The file is displayed in five tab delimited fields with the columns named O*NET-SOC Code, Task ID, DWA Element ID, Date, and Domain Source. The five fields are represented by one row. There are a total of 23,850 rows of data in this file.

For more information, see:

- [O*NET Work Activities Project Technical Report](https://www.onetcenter.org/reports/DWA_2014.html) [https://www.onetcenter.org/reports/DWA_2014.html]

File Structure Changes:

Release Number	Description of Change
18.1	Added as a new file
19.0 - 30.2	No structure changes
30.3	Columns “DWA ID,” “DWA Title” renamed to “DWA Element ID,” “DWA Element Name”

Data Example - Tasks to DWAs:

O*NET-SOC Code	Task ID	DWA Element ID	Date	Domain Source
25-3011.00	6824	4.A.3.b.6.1.4	03/2014	Analyst
25-3011.00	6825	4.A.1.a.2.f.3	03/2014	Analyst
25-3011.00	6825	4.A.2.a.1.c.4	03/2014	Analyst
25-3011.00	6826	4.A.2.b.2.1.6	03/2014	Analyst
25-3011.00	6827	4.A.4.b.3.b.6	03/2014	Analyst

Work Context

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 (<i>see Occupation Data</i>)
Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
Category	Integer(3)	Percent frequency category (<i>see Work Context Categories</i>)
Data Value	Float(5,2)	Rating associated with the O*NET-SOC occupation
N	Integer(4)	Sample size
Standard Error	Float(7,4)	Standard Error
Lower CI Bound	Float(7,4)	Lower 95% confidence interval bound
Upper CI Bound	Float(7,4)	Upper 95% confidence interval bound
Recommend Suppress	Character(1)	Low precision indicator (Y=yes, N=no)
Not Relevant	Character(1)	Not relevant for the occupation (Y=yes, N=no)
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 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 14 fields are represented by one row. There are a total of 297,676 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
5.0	Date and Source columns added
5.1	Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, and Not Relevant
6.0 - 28.1	No structure changes
28.2	Standard Error, Lower CI Bound, Upper CI Bound expanded from 2 decimal places to 4
28.3 - 30.3	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
47-2141.00	4.C.3.d.8	Duration of Typical Work Week	CT	n/a	1.99	20	0.2281	1.5163	2.4712	N	n/a	08/2025	Incumbent
47-2141.00	4.C.3.d.8	Duration of Typical Work Week	CTP	1	17.03	20	17.7643	1.4564	74.0353	Y	n/a	08/2025	Incumbent
47-2141.00	4.C.3.d.8	Duration of Typical Work Week	CTP	2	66.56	20	23.7009	17.6484	94.8695	Y	n/a	08/2025	Incumbent
47-2141.00	4.C.3.d.8	Duration of Typical Work Week	CTP	3	16.41	20	15.0155	1.9455	65.9997	Y	n/a	08/2025	Incumbent

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 (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
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 - 30.3	No structure changes

Data Example - Work Context Categories:

Element ID	Element Name	Scale ID	Category	Category Description
4.C.1.a.2.1	Face-to-Face Discussions with Individuals and Within Teams	CXP	1	Never
4.C.1.a.2.1	Face-to-Face Discussions with Individuals and Within Teams	CXP	2	Once a year or more but not every month
4.C.1.a.2.1	Face-to-Face Discussions with Individuals and Within Teams	CXP	3	Once a month or more but not every week
4.C.1.a.2.1	Face-to-Face Discussions with Individuals and Within Teams	CXP	4	Once a week or more but not every day
4.C.1.a.2.1	Face-to-Face Discussions with Individuals and Within Teams	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

Occupation Titles

Occupation Data

Purpose: Provide O*NET-SOC codes, titles, and descriptions.

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.

The file is 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 1,016 rows of data in this file.

For more information, see:

- [Updating the O*NET-SOC Taxonomy: Incorporating the 2010 SOC Structure](https://www.onetcenter.org/reports/Taxonomy2010.html) [https://www.onetcenter.org/reports/Taxonomy2010.html]

File Structure Changes:

Release Number	Description of Change
5.0 - 30.3	No structure changes

Data Example - Occupation Data:

O*NET-SOC Code	Title	Description
11-9041.01	Biofuels/Biodiesel Technology and Product Development Managers	Define, plan, or execute biofuels/biodiesel research programs that evaluate alternative feedstock and process technologies with near-term commercial potential.
17-2072.00	Electronics Engineers, Except Computer	Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use employing knowledge of electronic theory and materials properties. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion control, acoustics, or instruments and controls.
19-4031.00	Chemical Technicians	Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences.
45-4011.00	Forest and Conservation Workers	Under supervision, perform manual labor necessary to develop, maintain, or protect areas such as forests, forested areas, woodlands, wetlands, and rangelands through such activities as raising and transporting seedlings; combating insects, pests, and diseases harmful to plant life; and building structures to control water, erosion, and leaching of soil. Includes forester aides, seedling pullers, tree planters, and gatherers of nontimber forestry products such as pine straw.
51-8012.00	Power Distributors and Dispatchers	Coordinate, regulate, or distribute electricity or steam.

Job Titles

Purpose: Provide alternate occupational titles for O*NET-SOC occupations.

File Name: Job Titles.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Job Title	Character Varying(250)	Alternate occupational title
Short Title	Character Varying(150)	Short version of alternate title (if applicable)
Source(s)	Character Varying(50)	List of source codes — see below

This file contains job or alternate "lay" titles linked to occupations in the O*NET-SOC classification system. The file was developed to improve keyword searches in several Department of Labor internet applications (i.e., Career InfoNet, O*NET OnLine, and O*NET Code Connector). The file contains occupational titles from existing occupational classification systems, as well as from other diverse sources. When a title contains acronyms, abbreviations, or jargon, the "Short Title" column contains the brief version of the full title. The "Source(s)" column contains a comma delimited list of codes which indicate the source of the title information; the codes are identified below:

01	Associations [i.e., National Retail Federation, Environmental Career Centers (ECC), etc.]
02	Incumbent Data – O*NET Data Collection
03	Occupational Code Assignment (OCA)
04	SOC (i.e., SOC Index, SOC Volume 2, etc.)
05	State Agencies
06	US Bureau of Census (e.g., Census Index)
07	USDOL – BLS (e.g., IT to SOC)
08	USDOL – ETA (i.e., OPDER, OATELS, ACINET/Fu Associates, DOT, O*NET Center, etc.)
09	USDOL – User input, web applications (Code Connector, OnLine, and ACINET)
10	Employer Job Postings

The file is displayed in four tab delimited fields with the columns named O*NET-SOC Code, Job Title, Short Title, and Source(s). The four fields are represented by one row. There are a total of 57,543 rows of data in this file.

For more information, see:

- [O*NET Alternate Titles Procedures](https://www.onetcenter.org/reports/AltTitles.html) [https://www.onetcenter.org/reports/AltTitles.html]
- [A Weighted O*NET Keyword Search \(WWS\)](https://www.onetcenter.org/reports/WWS.html) [https://www.onetcenter.org/reports/WWS.html]
- [Military Transition Search \(as used in My Next Move for Veterans\)](https://www.onetcenter.org/reports/MilitarySearch.html) [https://www.onetcenter.org/reports/MilitarySearch.html]

File Structure Changes:

Release Number	Description of Change
20.1	Added as a new file
20.2 - 21.3	No structure changes
22.0	increased "Alternate Title" column from 150 to 250 characters
22.1 - 30.2	No structure changes
30.3	File name changed from "Alternate Titles" to "Job Titles"
30.3	Column "Alternate Title" renamed to "Job Title"

Data Example - Job Titles:

O*NET-SOC Code	Job Title	Short Title	Source(s)
29-2099.00	Sleep Technician	n/a	09

Sample of Reported Titles

Purpose: Provide job titles reported during O*NET data collection.

File Name: Sample of Reported Titles.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Reported Job Title	Character Varying(150)	Title from incumbents or occupational experts
Shown in My Next Move	Character(1)	Whether title is shown on My Next Move career page (Y=yes, N=no)

This file contains job titles frequently reported by incumbents and occupational experts on data collection surveys. These titles are displayed on occupational reports in the O*NET OnLine and O*NET Code Connector web applications; up to 10 titles for each occupation are displayed and included in this file. Up to 4 titles are also displayed in My Next Move, My Next Move for Veterans, and Mi Próximo Paso; the titles shown in these applications are marked with a Y in the “Shown in My Next Move” column.

The file is displayed in three tab delimited fields with the columns named O*NET-SOC Code, Reported Job Title, and Shown in My Next Move. The three fields are represented by one row. There are a total of 7,953 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
20.1	Added as a new file
20.2 - 30.3	No structure changes

Data Example - Sample of Reported Titles:

O*NET-SOC Code	Reported Job Title	Shown in My Next Move
17-2071.00	Circuits Engineer	N
17-2071.00	Design Engineer	Y
17-2071.00	Electrical Controls Engineer	N
17-2071.00	Electrical Design Engineer	Y
17-2071.00	Electrical Engineer	Y
17-2071.00	Electrical Project Engineer	N
17-2071.00	Engineer	N
17-2071.00	Instrumentation and Electrical Reliability Engineer (I&E Reliability Engineer)	N

Related Occupations and Related Domains

Related Occupations

Purpose: Provide related occupation links between O*NET-SOC occupations.

File Name: Related Occupations.txt

Structure and Description:

Column	Type	Column Content
O*NET-SOC Code	Character(10)	O*NET-SOC Code (<i>see Occupation Data</i>)
Related O*NET-SOC Code	Character(10)	Related O*NET-SOC code mapping (<i>see Occupation Data</i>)
Relatedness Tier	Character Varying(50)	Categories indicating level of relatedness
Index	Integer(3)	Order of related code mappings based on expert review

For each O*NET-SOC code included, 10 primary and 10 supplemental related O*NET-SOC codes are listed. The related occupations in this file are developed using an approach which includes three important contributors to occupational similarity: what people in the occupations do, what they know, and what they are called.

The “Relatedness Tier” column assigns one of three categories to each link:

- **Primary-Short** — Five most strongly related occupations after expert review.
- **Primary-Long** — 6th to 10th most strongly related occupations after expert review.
- **Supplemental** — 11th to 20th most strongly related occupations after expert review.

The file is displayed in four tab delimited fields with the columns named O*NET-SOC Code, Related O*NET-SOC Code, Relatedness Tier, and Index. The four fields are represented by one row. There are a total of 18,460 rows of data in this file.

For more information, see:

- [Developing Related Occupations for the O*NET Program](https://www.onetcenter.org/reports/Related_2022.html) [https://www.onetcenter.org/reports/Related_2022.html]
- [Updates to Related Occupations for the O*NET Program Using the O*NET 28.0 Database](https://www.onetcenter.org/reports/Related_2024.html) [https://www.onetcenter.org/reports/Related_2024.html]

File Structure Changes:

Release Number	Description of Change
26.3	Added as a new file
27.0 - 30.3	No structure changes

Data Example - Related Occupations:

O*NET-SOC Code	Related O*NET-SOC Code	Relatedness Tier	Index
17-1011.00	17-1012.00	Primary-Short	1
17-1011.00	11-9021.00	Primary-Short	2
17-1011.00	27-1025.00	Primary-Short	3
17-1011.00	17-2051.00	Primary-Short	4
17-1011.00	47-4011.00	Primary-Short	5
17-1011.00	11-9041.00	Primary-Long	6
17-1011.00	17-2112.00	Primary-Long	7

Abilities to Work Activities

Purpose: Provide linkages between abilities and relevant work activities.

File Name: Abilities to Work Activities.txt

Structure and Description:

Column	Type	Column Content
Abilities Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Abilities Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Work Activities Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Activities Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)

This file contains linkages between abilities and relevant work activities. Occupation-specific ratings for the listed elements may be found in the [Abilities](#) and [Work Activities](#) files. Linkages were developed by a panel of experienced industrial/organizational psychologists, and are used in the development of analyst occupational abilities ratings.

The file is displayed in four tab delimited fields with the columns named Abilities Element ID, Abilities Element Name, Work Activities Element ID, and Work Activities Element Name. The four fields are represented by one row. There are a total of 381 rows of data in this file.

For more information, see:

- [O*NET Analyst Occupational Abilities Ratings: Procedures Update](https://www.onetcenter.org/reports/AnalystProcUpdate.html) [https://www.onetcenter.org/reports/AnalystProcUpdate.html]

File Structure Changes:

Release Number	Description of Change
24.2	Added as a new file
24.3 - 30.3	No structure changes

Data Example - Abilities to Work Activities:

Abilities Element ID	Abilities Element Name	Work Activities Element ID	Work Activities Element Name
1.A.1.a.1	Oral Comprehension	4.A.1.a.1	Getting Information
1.A.1.a.1	Oral Comprehension	4.A.1.a.2	Monitoring Processes, Materials, or Surroundings
1.A.1.a.1	Oral Comprehension	4.A.1.b.1	Identifying Objects, Actions, and Events
1.A.1.a.1	Oral Comprehension	4.A.2.a.1	Judging the Qualities of Objects, Services, or People
1.A.1.a.1	Oral Comprehension	4.A.2.a.2	Processing Information

Abilities to Work Context

Purpose: Provide linkages between abilities and relevant work context.

File Name: Abilities to Work Context.txt

Structure and Description:

Column	Type	Column Content
Abilities Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Abilities Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Work Context Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Context Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)

This file contains linkages between abilities and relevant work context. Occupation-specific ratings for the listed elements may be found in the [Abilities](#) and [Work Context](#) files. Linkages were developed by a panel of experienced industrial/organizational psychologists, and are used in the development of analyst occupational abilities ratings.

The file is displayed in four tab delimited fields with the columns named Abilities Element ID, Abilities Element Name, Work Context Element ID, and Work Context Element Name. The four fields are represented by one row. There are a total of 139 rows of data in this file.

For more information, see:

- [O*NET Analyst Occupational Abilities Ratings: Procedures Update](https://www.onetcenter.org/reports/AnalystProcUpdate.html) [https://www.onetcenter.org/reports/AnalystProcUpdate.html]

File Structure Changes:

Release Number	Description of Change
24.2	Added as a new file
24.3 - 30.3	No structure changes

Data Example - Abilities to Work Context:

Abilities Element ID	Abilities Element Name	Work Context Element ID	Work Context Element Name
1.A.1.a.1	Oral Comprehension	4.C.1.a.2.c	Public Speaking
1.A.1.a.1	Oral Comprehension	4.C.1.a.2.f	Telephone Conversations
1.A.1.a.1	Oral Comprehension	4.C.1.a.2.1	Face-to-Face Discussions with Individuals and Within Teams
1.A.1.a.1	Oral Comprehension	4.C.1.a.4	Contact With Others
1.A.1.a.1	Oral Comprehension	4.C.1.b.1.e	Work With or Contribute to a Work Group or Team

Essential Skills to Work Activities

Purpose: Provide linkages between essential skills and relevant work activities.

File Name: Essential Skills to Work Activities.txt

Structure and Description:

Column	Type	Column Content
Essential Skills Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Essential Skills Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Work Activities Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Activities Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)

This file contains linkages between essential skills and relevant work activities. Occupation-specific ratings for the listed elements may be found in the [Essential Skills](#) and [Work Activities](#) files. Linkages were developed by a panel of experienced industrial/organizational psychologists, and are used in the development of analyst occupational skills ratings.

The file is displayed in four tab delimited fields with the columns named Essential Skills Element ID, Essential Skills Element Name, Work Activities Element ID, and Work Activities Element Name. The four fields are represented by one row. There are a total of 110 rows of data in this file.

For more information, see:

- [O*NET Analyst Occupational Skills Ratings: Procedures Update](https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html) [https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html]

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Essential Skills to Work Activities:

Essential Skills Element ID	Essential Skills Element Name	Work Activities Element ID	Work Activities Element Name
2.A.1.a	Reading Comprehension	4.A.1.a.1	Getting Information
2.A.1.a	Reading Comprehension	4.A.1.a.2	Monitoring Processes, Materials, or Surroundings
2.A.1.a	Reading Comprehension	4.A.1.b.1	Identifying Objects, Actions, and Events
2.A.1.a	Reading Comprehension	4.A.2.a.1	Judging the Qualities of Objects, Services, or People
2.A.1.a	Reading Comprehension	4.A.2.a.2	Processing Information

Essential Skills to Work Context

Purpose: Provide linkages between essential skills and relevant work context.

File Name: Essential Skills to Work Context.txt

Structure and Description:

Column	Type	Column Content
Essential Skills Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Essential Skills Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Work Context Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Context Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)

This file contains linkages between essential skills and relevant work context. Occupation-specific ratings for the listed elements may be found in the [Essential Skills](#) and [Work Context](#) files. Linkages were developed by a panel of experienced industrial/organizational psychologists, and are used in the development of analyst occupational skills ratings.

The file is displayed in four tab delimited fields with the columns named Essential Skills Element ID, Essential Skills Element Name, Work Context Element ID, and Work Context Element Name. The four fields are represented by one row. There are a total of 39 rows of data in this file.

For more information, see:

- [O*NET Analyst Occupational Skills Ratings: Procedures Update](https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html) [https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html]

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Essential Skills to Work Context:

Essential Skills Element ID	Essential Skills Element Name	Work Context Element ID	Work Context Element Name
2.A.1.a	Reading Comprehension	4.C.1.a.2.h	E-Mail
2.A.1.b	Active Listening	4.C.1.a.2.c	Public Speaking
2.A.1.b	Active Listening	4.C.1.a.2.f	Telephone Conversations
2.A.1.b	Active Listening	4.C.1.a.2.l	Face-to-Face Discussions with Individuals and Within Teams
2.A.1.b	Active Listening	4.C.1.a.4	Contact With Others

Transferable Skills to Work Activities

Purpose: Provide linkages between transferable skills and relevant work activities.

File Name: Transferable Skills to Work Activities.txt

Structure and Description:

Column	Type	Column Content
Transferable Skills Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Transferable Skills Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Work Activities Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Activities Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)

This file contains linkages between transferable skills and relevant work activities. Occupation-specific ratings for the listed elements may be found in the [Transferable Skills](#) and [Work Activities](#) files. Linkages were developed by a panel of experienced industrial/organizational psychologists, and are used in the development of analyst occupational skills ratings.

The file is displayed in four tab delimited fields with the columns named Transferable Skills Element ID, Transferable Skills Element Name, Work Activities Element ID, and Work Activities Element Name. The four fields are represented by one row. There are a total of 122 rows of data in this file.

For more information, see:

- [O*NET Analyst Occupational Skills Ratings: Procedures Update](https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html) [https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html]

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Transferable Skills to Work Activities:

Transferable Skills Element ID	Transferable Skills Element Name	Work Activities Element ID	Work Activities Element Name
2.B.1.a	Social Perceptiveness	4.A.4.a.1	Interpreting the Meaning of Information for Others
2.B.1.a	Social Perceptiveness	4.A.4.a.3	Communicating with People Outside the Organization
2.B.1.a	Social Perceptiveness	4.A.4.a.4	Establishing and Maintaining Interpersonal Relationships
2.B.1.a	Social Perceptiveness	4.A.4.a.5	Assisting and Caring for Others
2.B.1.a	Social Perceptiveness	4.A.4.a.6	Selling or Influencing Others

Transferable Skills to Work Context

Purpose: Provide linkages between transferable skills and relevant work context.

File Name: Transferable Skills to Work Context.txt

Structure and Description:

Column	Type	Column Content
Transferable Skills Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Transferable Skills Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Work Context Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Context Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)

This file contains linkages between transferable skills and relevant work context. Occupation-specific ratings for the listed elements may be found in the [Transferable Skills](#) and [Work Context](#) files. Linkages were developed by a panel of experienced industrial/organizational psychologists, and are used in the development of analyst occupational skills ratings.

The file is displayed in four tab delimited fields with the columns named Transferable Skills Element ID, Transferable Skills Element Name, Work Context Element ID, and Work Context Element Name. The four fields are represented by one row. There are a total of 57 rows of data in this file.

For more information, see:

- [O*NET Analyst Occupational Skills Ratings: Procedures Update](https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html) [https://www.onetcenter.org/reports/AOSkills_ProcUpdate.html]

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Transferable Skills to Work Context:

Transferable Skills Element ID	Transferable Skills Element Name	Work Context Element ID	Work Context Element Name
2.B.1.a	Social Perceptiveness	4.C.1.a.2.c	Public Speaking
2.B.1.a	Social Perceptiveness	4.C.1.a.2.f	Telephone Conversations
2.B.1.a	Social Perceptiveness	4.C.1.a.2.l	Face-to-Face Discussions with Individuals and Within Teams
2.B.1.a	Social Perceptiveness	4.C.1.a.4	Contact With Others
2.B.1.a	Social Perceptiveness	4.C.1.b.1.e	Work With or Contribute to a Work Group or Team

Work Styles to Work Activities

Purpose: Provide linkages between work styles and relevant work activities.

File Name: Work Styles to Work Activities.txt

Structure and Description:

Column	Type	Column Content
Work Styles Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Styles Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Work Activities Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Activities Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)

This file contains linkages between work styles and relevant work activities. Occupation-specific ratings for the listed elements may be found in the [Work Styles](#) and [Work Activities](#) files. For information about the development of the linkages, as well as additional metadata and descriptive statistics for each linkage, see [Revisiting the Work Styles Domain of the O*NET Content Model](https://www.onetcenter.org/reports/Work_Styles_New.html) [https://www.onetcenter.org/reports/Work_Styles_New.html].

The file is displayed in four tab delimited fields with the columns named Work Styles Element ID, Work Styles Element Name, Work Activities Element ID, and Work Activities Element Name. The four fields are represented by one row. There are a total of 303 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Work Styles to Work Activities:

Work Styles Element ID	Work Styles Element Name	Work Activities Element ID	Work Activities Element Name
1.D.1.a	Innovation	4.A.2.b.1	Making Decisions and Solving Problems
1.D.1.a	Innovation	4.A.2.b.2	Thinking Creatively
1.D.1.a	Innovation	4.A.2.b.3	Updating and Using Relevant Knowledge
1.D.1.a	Innovation	4.A.2.b.4	Developing Objectives and Strategies
1.D.1.a	Innovation	4.A.4.a.6	Selling or Influencing Others

Work Styles to Work Context

Purpose: Provide linkages between work styles and relevant work context.

File Name: Work Styles to Work Context.txt

Structure and Description:

Column	Type	Column Content
Work Styles Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Styles Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Work Context Element ID	Character Varying(20)	Content Model Outline Position (<i>see Content Model Reference</i>)
Work Context Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)

This file contains linkages between work styles and relevant work context. Occupation-specific ratings for the listed elements may be found in the [Work Styles](#) and [Work Context](#) files. For information about the development of the linkages, as well as additional metadata and descriptive statistics for each linkage, see [Revisiting the Work Styles Domain of the O*NET Content Model](https://www.onetcenter.org/reports/Work_Styles_New.html) [https://www.onetcenter.org/reports/Work_Styles_New.html].

The file is displayed in four tab delimited fields with the columns named Work Styles Element ID, Work Styles Element Name, Work Context Element ID, and Work Context Element Name. The four fields are represented by one row. There are a total of 266 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
30.3	Added as a new file

Data Example - Work Styles to Work Context:

Work Styles Element ID	Work Styles Element Name	Work Context Element ID	Work Context Element Name
1.D.1.a	Innovation	4.C.1.d.1	Conflict Situations
1.D.1.a	Innovation	4.C.3.a.4	Freedom to Make Decisions
1.D.1.a	Innovation	4.C.3.b.8	Determine Tasks, Priorities and Goals
1.D.1.a	Innovation	4.C.3.c.1	Level of Competition
1.D.1.b	Achievement Orientation	4.C.1.b.1.g	Coordinate or Lead Others in Accomplishing Work Activities

Data Collection

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.

The file 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 3,006 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
5.0 - 30.3	No structure changes

Data Example - Content Model Reference:

Element ID	Element Name	Description
1	Worker Characteristics	Personal traits and abilities that affect how people learn and perform at work.
1.A	Abilities	Natural talents and capabilities that affect how well someone can perform work.
1.A.1	Cognitive Abilities	Abilities that influence the acquisition and application of knowledge in problem solving
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.

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 (<i>see Occupation Data</i>)
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 when data was updated

This file contains occupational level metadata variables associated with data collection statistics. Refer to [Appendix 3, Key to Occupation Level Metadata](#) for additional descriptions of the data provided in this file.

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. There are a total of 32,202 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
5.1	Added as a new file
6.0 - 20.3	No structure changes
21.0	Items added and renamed; see Appendix 3, Key to Occupation Level Metadata
21.1 - 30.3	No structure changes

Data Example - Occupation Level Metadata:

O*NET-SOC Code	Item	Response	N	Percent	Date
17-2111.02	Data Collection Mode	Paper	26	15.4	08/2025
17-2111.02	Data Collection Mode	Web	26	84.6	08/2025
17-2111.02	How Much Experience Performing Work in this Occupation	1-2 Years	26	0.0	08/2025
17-2111.02	How Much Experience Performing Work in this Occupation	10+ Years	26	96.2	08/2025
17-2111.02	How Much Experience Performing Work in this Occupation	3-4 Years	26	0.0	08/2025
17-2111.02	How Much Experience Performing Work in this Occupation	5-9 Years	26	3.8	08/2025
17-2111.02	How Much Experience Performing Work in this Occupation	<1 Year	26	0.0	08/2025
17-2111.02	How Much Experience Performing Work in this Occupation	Missing	26	0.0	08/2025
17-2111.02	How Much Experience Performing Work in this Occupation	Never performed work in the occupation	26	0.0	08/2025
17-2111.02	OE Completeness Rate	n/a	n/a	100.0	08/2025
17-2111.02	OE Response Rate	n/a	n/a	50.0	08/2025
17-2111.02	Total Completed Questionnaires	n/a	26	n/a	08/2025
17-2112.00	Data Collection Mode	Paper	84	42.9	08/2020
17-2112.00	Data Collection Mode	Web	84	57.1	08/2020
17-2112.00	Employee Completeness Rate	n/a	n/a	90.3	08/2020
17-2112.00	Employee Response Rate	n/a	n/a	68.4	08/2020

Level Scale Anchors

Purpose: Provide descriptions 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 (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)
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](https://www.onetcenter.org/ombclearance.html) [https://www.onetcenter.org/ombclearance.html]).

For a comparison of the current anchor values (implemented October, 2024) to the previous values, see:

- [Level Scale Anchors 30.2 comparison](https://www.onetcenter.org/dl_files/Level_Scale_Anchor_302_comparison.xlsx) [https://www.onetcenter.org/dl_files/Level_Scale_Anchor_302_comparison.xlsx] (Excel download)

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	The data for Education, Training, and Experience and Work Context were moved into their own files for data clarity purposes.
10.0 - 30.3	No structure changes

Data Example - Level Scale Anchors:

Element ID	Element Name	Scale ID	Anchor Value	Anchor Description
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 Artificial Intelligence systems
1.A.1.a.3	Oral Expression	LV	2	Place an order at a restaurant drive-thru
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

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.

The file 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 32 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
5.0 - 30.3	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

Survey Booklet Locations

Purpose: Provide survey item numbers for 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 (<i>see Content Model Reference</i>)
Element Name	Character Varying(150)	Content Model Element Name (<i>see Content Model Reference</i>)
Survey Item Number	Character Varying(5)	Survey Booklet Location Number
Scale ID	Character Varying(3)	Scale ID (<i>see Scales Reference</i>)

This file contains the Content Model elements that have corresponding survey item numbers in the Survey Booklet.

Each survey item number corresponds to a survey question in the [O*NET Questionnaires](https://www.onetcenter.org/ombclearance.html) [https://www.onetcenter.org/ombclearance.html]. 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.

The file 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 211 rows of data in this file.

File Structure Changes:

Release Number	Description of Change
5.0	Added as a new file
5.1 - 12.0	No structure changes
13.0	Added Scale ID column
14.0 - 29.1	No structure changes
29.2	Survey Item Number expanded from 4 characters to 5
29.3 - 30.3	No structure changes

Data Example - Survey Booklet Locations:

Element ID	Element Name	Survey Item Number	Scale ID
2.C.1.a	Administration and Management	KN01	IM
2.C.1.a	Administration and Management	KN01b	LV
2.C.1.b	Administrative	KN02	IM
2.C.1.b	Administrative	KN02b	LV
2.C.1.c	Economics and Accounting	KN03	IM
2.C.1.c	Economics and Accounting	KN03b	LV

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 (SEM) 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 (SEM) 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 SEM 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 SEM 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 SEM 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 ≥ 2 (i.e., six or more analysts rated importance a 1). A value of “Y” indicates 0, 1, or 2 analysts rated importance ≥ 2 . A value of “N” indicates more than 2 analysts rated importance ≥ 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 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.

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

- Paper
- Web

Employee Completeness Rate - The employee completeness rate for an occupation is the percentage of total returned non-blank questionnaires that were retained after editing and data cleaning.

Employee Response Rate - The employee response rate is the percentage of eligible employees in the sample who return a non-blank questionnaire.

Establishment Eligibility Rate - The establishment eligibility rate is the percentage of sampled establishments where the target establishment or a similar establishment in the same industry was found to be in operation at the sampled address.

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

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

How Much Experience Performing Work in this Occupation - Occupational experts indicated in the background questionnaire how much experience they have performing work in this occupation. Valid responses are:

- 10+ years
- 5-9 years
- 3-4 years
- 1-2 years
- <1 year
- Never

- 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

OE Completeness Rate - The OE completeness rate for an occupation is the percentage of total returned non-blank questionnaire sets that were retained after editing and data cleaning.

OE Response Rate - The OE response rate is the percentage of eligible experts selected for the occupation who return a non-blank questionnaire.

SOC Eligibility Rate - The SOC eligibility rate is the percentage of eligible establishments where the target occupation was asked about and present at the sampled address.

Total Completed Questionnaires – Total Completes refers to the total number of incumbents who completed one of the four questionnaire types.

Appendix 4. Content Updates Since Release 4.0

O*NET 30.3 Database

The 30.3 release includes a variety of significant O*NET Program updates:

- The [O*NET Content Model](https://www.onetcenter.org/content.html) [https://www.onetcenter.org/content.html] is modernized:
 - A straightforward, three-dimensional structure (Worker, Job, Market) reorganizes and consolidates information.
 - Updated taxonomy structures showcase the availability of nested, granular data. This includes the addition of Intermediate Work Activities, Detailed Work Activities, and software categories to the [Content Model Reference](#) file.
 - Simplified terminology throughout makes information more approachable. This includes changes to file and column names, particularly in the Skills, Interests, and Work Activities domains.
 - Data in the “Skills” and “Education, Training, and Experience” files have been separated into multiple files to better align with the Content Model.
 - A [migration reference document](https://www.onetcenter.org/dl_files/30_3_migration_reference.xlsx) [https://www.onetcenter.org/dl_files/30_3_migration_reference.xlsx] helps developers and researchers with the transition, including a database transitional crosswalk, a listing of modified file names, and a mapping of updated terminology.
- For the first time, data on 41 [Specific Interest Areas](#) for each occupation are available:
 - “Basic Interests” data profiles are populated for 891 data-level occupations using a hybrid artificial intelligence-expert method.
- Related Domains information is expanded:
 - [Work Styles to Work Activities](#) and [Work Styles to Work Context](#) linkages are added.
- [Software Skills](#) information is updated:
 - An updated listing of 176 “Employer-Based Hot Technologies,” identified from employer job postings across all occupations, resulted in 11,500+ occupation linkages.
 - Updated “Employer-Based In Demand” software skill designations, based on employer job postings within each occupation, led to 2,400+ “In Demand” skill linkages across 285 occupations.
 - 50+ new software linkages related to 30 occupations were identified from employer job postings.
 - The software hierarchy previously in “UNSPSC Reference” has been moved to [Content Model Reference](#). Each software category now includes a description to provide additional detail. For a crosswalk of UNSPSC codes to Content Model IDs, see the [migration reference document](https://www.onetcenter.org/dl_files/30_3_migration_reference.xlsx) [https://www.onetcenter.org/dl_files/30_3_migration_reference.xlsx].
- The Job Zone for 15-1211.00 (Computer Systems Analysts) was revised from Job Zone 3 to Job Zone 4 based on evaluation of contributing data used to assign Job Zones.

- The files “Tools Used” and “Work Values” are no longer updated or included in the O*NET Database. Developers and researchers may continue to use the latest version of these files from the 30.2 database release.

For a full listing of modified file and column names, and crosswalks to new Work Activity and software category IDs, see the [migration reference document](https://www.onetcenter.org/dl_files/30_3_migration_reference.xlsx) [https://www.onetcenter.org/dl_files/30_3_migration_reference.xlsx].

O*NET 30.2 Database

886 occupations are updated. The 30.2 release includes:

- Vocational interest data for 871 occupations updated by a machine learning-expert method.
- Updated Job Zone assignments for 325 occupations, based on a new four-level framework reflecting the increased skill demands of occupations.
- Job/alternate titles for 635 occupations updated based on employer job postings.
- Level Scale Anchors for Knowledge and Work Activities domains normalized to Low / Moderate / High anchor points, reflecting current data collection questionnaires.

Technical reports related to this update include:

- [Updates to Occupational Interest Profiles and High-Point Codes for the O*NET Program Using the O*NET 30.0 Database](https://www.onetcenter.org/reports/OIP_Update_30.html) [https://www.onetcenter.org/reports/OIP_Update_30.html]
- [O*NET Job Zones in Transition: A New Four-Level Framework Reflecting the Increased Skill Demands of Occupations](https://www.onetcenter.org/reports/Job_Zone_Transition.html) [https://www.onetcenter.org/reports/Job_Zone_Transition.html]

For a comparison of the current Level Scale Anchor values (implemented October, 2024) to the previous values, see:

- [Level Scale Anchors 30.2 comparison](https://www.onetcenter.org/dl_files/Level_Scale_Anchor_302_comparison.xlsx) [https://www.onetcenter.org/dl_files/Level_Scale_Anchor_302_comparison.xlsx] (Excel download)

O*NET 30.1 Database

923 occupations are updated. The 30.1 release includes:

- An updated Work Styles Taxonomy within the O*NET Content Model.
- Work Styles data for 891 O*NET-SOC occupations updated by a new hybrid artificial intelligence-expert method.
- Related occupations for all 923 data-level O*NET-SOC occupations, identified by a machine learning and occupational analyst review process.
- An updated listing of 171 “Hot Technologies,” based on employer job postings from across all occupations, resulted in 11,500+ occupation linkages.
- Updated “In Demand” technology skill designations, based on employer job postings from within each occupation, led to 2,400+ “In Demand” skill linkages across 495 occupations.

- 120+ new technology linkages related to 80 occupations identified from employer job postings.
- The commodities used to organize and display technology skills updated to reflect the latest version of the United Nations Standard Products and Services Code (UNSPSC-UNv260801).
 - 2 new technology skill commodities were added, impacting the commodity codes and titles for 57 technology skill linkages.
 - 32 tool commodities were renamed, impacting the commodity titles for 2,530 tool linkages.
- Alternate titles for 14 occupations updated from user input via the Occupational Code Assignment (OCA) process.
- The task list for 1 occupation was revised based on analyst review.

Technical reports related to this update include:

- [Updating Higher-order Work Style Dimensions in the O*NET Work Styles Taxonomy](https://www.onetcenter.org/reports/Higher_Order_Styles.html) [https://www.onetcenter.org/reports/Higher_Order_Styles.html]
- [Revisiting the Work Styles Domain of the O*NET Content Model](https://www.onetcenter.org/reports/Work_Styles_New.html) [https://www.onetcenter.org/reports/Work_Styles_New.html]
- [Using a Hybrid Artificial Intelligence-Expert Method to Develop Work Style Ratings for the O*NET Database](https://www.onetcenter.org/reports/Hybrid_AI_Ratings.html) [https://www.onetcenter.org/reports/Hybrid_AI_Ratings.html]
- [Updates to Related Occupations for the O*NET Program Using the O*NET 30.0 Database](https://www.onetcenter.org/reports/Related_2025.html) [https://www.onetcenter.org/reports/Related_2025.html]

O*NET 30.0 Database

218 occupations are updated in the 30.0 release of the O*NET database:

- Addition and update of Abilities and Skills data for 78 occupations
- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 78 occupations
- Addition and update of Emerging Tasks for 30 occupations
- Addition and update of Work Activities, Knowledge, and Work Context data for 78 occupations
- Addition and update of Training and Work Experience and Education data for 78 occupations
- Addition and update of Work Styles data for 78 occupations
- Addition and update of Job Zones data for 78 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 170 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 78 occupations

O*NET 29.3 Database

350 occupations are updated in the 29.3 release of the O*NET database:

- Emerging task statements related to drone technology were identified for 55 occupations by a new source that uses artificial intelligence and subject matter expert input (AI/SME).
- An updated listing of 172 “Hot Technologies,” based on employer job postings from across all occupations, resulted in 11,600+ occupation linkages.

- Updated “In Demand” technology skill designations, based on employer job postings from within each occupation, led to 2,300+ “In Demand” skill linkages across 495 occupations.
- 60+ new technology linkages related to 42 occupations were identified from employer job postings.

To learn about the identification of emerging tasks within the O*NET System, see: [Identification of Emerging Tasks in the O*NET System: A Revised Approach](https://www.onetcenter.org/reports/EmergingTasks_RevisedApproach.html) [https://www.onetcenter.org/reports/EmergingTasks_RevisedApproach.html] and [Adding Drone-Specific Tasks to the O*NET Database: Initial Identification of Emerging Tasks using ChatGPT](https://www.onetcenter.org/reports/Drone_Tasks.html) [https://www.onetcenter.org/reports/Drone_Tasks.html].

O*NET 29.2 Database

- 1,444 alternate titles related to 546 occupations were added from employer job postings and customer input.
- Updated [Survey Booklet Locations](#) and [Content Model Reference](#) files reflect changes and edits within the O*NET questionnaires.

For updated versions of the generic, customizable forms of the questionnaires used in the O*NET Data Collection Program, see [O*NET Questionnaires](https://www.onetcenter.org/questionnaires.html) [https://www.onetcenter.org/questionnaires.html].

O*NET 29.1 Database

- Occupational analysts updated the job zone assignments for 21 occupations using the [procedures for developing preliminary job zone ratings](https://www.onetcenter.org/reports/JobZoneProcedureUpdate.html) [https://www.onetcenter.org/reports/JobZoneProcedureUpdate.html].
- An updated listing of 170 “Hot Technologies,” based on employer job postings from across all occupations, resulted in 11,600+ occupation linkages.
- Updated “In Demand” technology skill designations, based on employer job postings from within each occupation, led to 2,300+ “In Demand” skill linkages across 487 occupations.
- 150+ new technology linkages related to 90 occupations were identified from employer job postings and customer input.
- 13 new tools linkages related to 2 occupations were identified from customer input.

O*NET 29.0 Database

- Addition and update of Abilities and Skills data for 101 occupations
- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 80 occupations
- Addition and update of Work Activities, Knowledge, and Work Context data for 80 occupations
- Addition and update of Training and Work Experience and Education data for 80 occupations
- Addition and update of Work Styles data for 80 occupations
- Addition and update of Job Zones data for 80 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 42 occupations

- Addition and update of Alternate Titles and Sample of Reported Titles for 80 occupations

Beginning with the 29.0 release, task statements are considered relevant and retained as part of an occupation's task statement list if they have a relevance rating of 25% or higher. The minimum relevance in previous releases was 10%. This impacts the 80 occupations with updated task ratings, as well as 466 task statements across an additional 228 occupations.

O*NET 28.3 Database

- An updated listing of 168 “Hot Technologies,” based on employer job postings from across all occupations, resulted in 11,500+ occupation linkages.
- Updated “In Demand” technology skill designations, based on employer job postings from within each occupation, led to approximately 2,000 “In Demand” skill linkages across 439 occupations.
- Task statements for 39 occupations were revised to update language related to people with disabilities.
- Sample of Reported Titles for 52 occupations were updated based on a quality control review.

O*NET 28.2 Database

- Related occupations were updated for all 923 data-level occupations.
- 17 new technology skill linkages related to 9 occupations were identified from customer input.
- 6 new tools used linkages related to 2 occupations were identified from customer input.
- Standard Error, Upper CI Bound, and Lower CI Bound metadata fields were expanded from 2 decimal places to 4.

For additional details on the related occupations updates, see [Updates to Related Occupations for the O*NET Program Using the O*NET 28.0 Database](https://www.onetcenter.org/reports/Related_2024.html) [https://www.onetcenter.org/reports/Related_2024.html] in our Reports and Documents area.

Previous releases rounded Standard Error and other metadata to 2 decimal places, resulting in a rounded value of zero when the actual value was very small but greater than zero. This release increases the precision to 4 decimal places, providing additional clarity in these cases.

O*NET 28.1 Database

- RIASEC Occupational Interest Profiles (OIPs) and high-point codes for all 923 data-level occupations were developed using machine learning.
- An updated listing of 162 “Hot Technologies,” based on employer job postings from across all occupations, resulted in 11,400+ occupation linkages.
- Updated “In Demand” technology skill designations, based on employer job postings from within each occupation, led to approximately 2,500 “In Demand” skill linkages across 489 occupations.
- 90+ new technology skill linkages related to 75 occupations were identified from employer job postings.
- 450+ alternate titles related to 237 occupations were added from a review of Registered Apprenticeship Programs (RAPs), customer input, and other sources.

- The Job Zone for 15-1211.00 (Computer Systems Analysts) was revised from Job Zone 3 to Job Zone 4 based on evaluation of contributing data used to assign Job Zones.

To learn more about the successful effort to leverage advances in supervised machine learning to update the vocational interest information in the O*NET System, see: [Using Machine Learning to Develop Occupational Interest Profiles and High-Point Codes for the O*NET System](https://www.onetcenter.org/reports/ML_OIPs.html) [https://www.onetcenter.org/reports/ML_OIPs.html].

O*NET 28.0 Database

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 90 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 90 occupations
- Addition and update of Training and Work Experience and Education data for 90 occupations
- Addition and update of Work Styles data for 90 occupations
- Addition and update of Job Zones data for 90 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 65 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 90 occupations

O*NET 27.3 Database

- 924 technology skill linkages related to 282 occupations were added from employer job postings.

The [Interests Illustrative Activities](#) file was also updated to fix a typographical error.

O*NET 27.2 Database

- **Basic Occupational Interests** added to the O*NET Content Model - a set of 41 more detailed and precise interest elements
- New file containing action and object keywords for each general (RIASEC) occupational interest
- New file linking each basic occupational interest to relevant general occupational interests
- New file containing illustrative work activities related to the general and basic occupational interests
- New file containing illustrative occupations linked to the general and basic occupational interests
- 1,995 alternate titles related to 629 occupations were added from employer job postings and customer input.

For additional details on the interests updates, see [Updating Vocational Interests Information for the O*NET Content Model](https://www.onetcenter.org/reports/Voc_Interests.html) [https://www.onetcenter.org/reports/Voc_Interests.html] in our Reports and Documents area. Also see the documentation for each of the new files:

- [RIASEC Keywords](#)
- [Basic Interests to RIASEC](#)

- [Interests Illustrative Activities](#)
- [Interests Illustrative Occupations](#)

O*NET 27.1 Database

- 157 technology skills, related to 892 occupations via 10,707 linkages, were identified as “Hot Technologies” using an updated approach.
- 2,515 technology skill linkages were identified as “In Demand” for 478 occupations.
- 641 technology skill linkages related to 215 occupations were added from employer job postings.
- 18 alternate titles related to 13 occupations were added from customer input and other sources.

This release updates the approach to identifying “Hot Technologies” and introduces the concept of “In Demand” technology skills.

- **Hot Technologies** are software and technology requirements most frequently included **across all employer job postings**.
- **In Demand** technology skills are software and technology requirements frequently included in the employer job postings **for a particular occupation**.

The purpose of the two designations is to enable O*NET customers to learn which technology skills employers in the US economy are presently emphasizing and searching for while recruiting employees. For additional details on the Hot Technology and In Demand designations, see [Hot Technologies and In Demand Technology Skills within the O*NET System](https://www.onetcenter.org/reports/Hot_Technologies_Demand.html) [https://www.onetcenter.org/reports/Hot_Technologies_Demand.html] in our Reports and Documents area.

O*NET 27.0 Database

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 80 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 80 occupations
- Addition and update of Training and Work Experience and Education data for 80 occupations
- Addition and update of Work Styles data for 80 occupations
- Addition and update of Job Zones data for 80 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 12 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 80 occupations

O*NET 26.3 Database

- New related occupations were added for all 923 data-level occupations.
- 51 technology skills related to 15 occupations were added from customer input.
- 22 tools used related to 4 occupations were added from customer input.

The newly added [Related Occupations](#) file replaces the “Career Changers Matrix” and “Career Starters Matrix” files, which have been removed from the database. These related occupations

are developed using an approach which includes three important contributors to occupational similarity: what people in the occupations do, what they know, and what they are called.

For additional details on the Related Occupations project, see [Developing Related Occupations for the O*NET Program](https://www.onetcenter.org/reports/Related_2022.html) [https://www.onetcenter.org/reports/Related_2022.html] in our Reports and Documents area.

O*NET 26.2 Database

- 1,147 technology skills related to 509 occupations were added or updated by occupational analyst review.
- 671 alternate titles related to 222 occupations were added from professional associations, customer input, and other sources.

O*NET 26.1 Database

- 112 alternate titles related to 13 occupations were added from professional associations and customer input.
- 49 occupations were populated with Job Zone assignments.
- 60 Level Scale Anchor descriptions were updated within the Knowledge and Generalized Work Activities domains.
- 1,900 technology skills related to 586 occupations were added or updated from professional associations, customer input, and other sources.
- 3,127 tools used related to 327 occupations were added or updated from professional associations, customer input, and other sources.
- 20 Content Model element names and descriptions were updated with minor edits.

For additional details on the Level Scale Anchors update, see [O*NET Level Scale Anchor Updates: Knowledge and Generalized Work Activities](https://www.onetcenter.org/reports/Anchors_Update_KG.html) [https://www.onetcenter.org/reports/Anchors_Update_KG.html] in our Reports and Documents area.

This release transitioned technology skills and tools information to an organizing structure based on the latest version of the United Nations Standard Products and Services Code (UNSPSC).

In this release, the Content Model Reference file was updated to minimize wording and grammar differences between the O*NET Database and [O*NET Questionnaires](https://www.onetcenter.org/questionnaires.html) [https://www.onetcenter.org/questionnaires.html]. These updates also affected other download files where element names or descriptions are included. For more information on the role of questionnaires in our data collection process, see [O*NET Data Collection Overview](https://www.onetcenter.org/dataCollection.html) [https://www.onetcenter.org/dataCollection.html].

O*NET 26.0 Database

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 100 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 100 occupations

- Addition and update of Training and Work Experience and Education data for 100 occupations
- Addition and update of Work Styles data for 100 occupations
- Addition and update of Job Zones data for 100 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 238 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 402 occupations
- Update of Level Scale Anchors descriptions for 89 anchors in the Abilities and Skills domains

For additional details on the Level Scale Anchors update, see [O*NET Level Scale Anchor Updates: Abilities and Skills Domains](https://www.onetcenter.org/reports/Anchors_Update_AS.html) [https://www.onetcenter.org/reports/Anchors_Update_AS.html] in our Reports and Documents area.

O*NET 25.3 Database

- 907 technology skills related to 141 occupations were updated from employer job postings and other sources. Currently, 182 “hot technologies” are identified. This update includes information linked to 150 occupations which underwent a “spotlight” or detailed review by occupational analysts.
- 252 alternate titles related to 139 occupations were added from employer job postings.

O*NET 25.2 Database

The 25.2 release of the O*NET database includes the identification of technology skills related to distance learning and remote training. During the current COVID pandemic, schools, teachers, students, families, and businesses often rely on a wide variety of emerging technologies to navigate the challenges of decentralized education and work environments. For an initial listing of over 50 related technology skills, see [O*NET Resource Center — Distance Learning & Remote Training](https://www.onetcenter.org/initiatives.html#distance-learning) [https://www.onetcenter.org/initiatives.html#distance-learning].

[O*NET Hot Technologies](https://www.onetonline.org/search/hot_tech/) [https://www.onetonline.org/search/hot_tech/] were also updated in this release, leading to the following database enhancements:

- 1,206 technology skills related to 232 occupations were updated from employer job postings and other sources. Currently, 182 “hot technologies” are identified.
- 15 tools used related to 4 occupations were updated from customer feedback.

O*NET 25.1 Database – Updating the O*NET-SOC Taxonomy

The O*NET-SOC 2019 taxonomy structure has been revised based on the transition to the 2018 SOC. The O*NET 25.1 Database, which incorporates the new O*NET-SOC taxonomy, includes 1,016 occupational titles, 923 of which represent O*NET data-level occupations.

A technical report, [Updating the O*NET-SOC Taxonomy: Incorporating the 2018 SOC Structure](https://www.onetcenter.org/reports/Taxonomy2019.html) [https://www.onetcenter.org/reports/Taxonomy2019.html], is available which describes the new O*NET-SOC 2019 taxonomy structure. The overall relationship between the O*NET-SOC

2019 and the 2018 SOC is summarized. Code, title, or description changes that occurred from transitioning to the new 2018 SOC structure are detailed in the report. The new O*NET-SOC 2019 structure also includes four cybersecurity-related new and emerging occupations.

For a graphical overview of the new structure see: [About the O*NET-SOC 2019 Taxonomy](https://www.onetcenter.org/taxonomy.html#latest) [https://www.onetcenter.org/taxonomy.html#latest]

Data from the O*NET 25.0 database (O*NET-SOC 2010) has been incorporated into the new O*NET-SOC 2019 taxonomy, including the new O*NET-SOC codes, titles, and descriptions. In the 25.1 release, taxonomy-related updates include:

- Addition of 62 O*NET-SOC 2019 occupations
- Update of O*NET-SOC codes, titles, and/or descriptions for 345 occupations
- Addition and update of Task Statements for 127 occupations
- Addition of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 53 occupations
- Addition of Work Styles data for 53 occupations
- Addition of Job Zones data for 53 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 127 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 127 occupations
- Addition and update of Technology Skills and Tools Used for 98 occupations

A total of 874 occupations include data on Knowledge, Skills, Abilities, and other descriptors in this release. 53 of these occupations include data aggregated from one or more predecessor O*NET-SOC 2010 occupations. In these cases, data is marked with “Analyst - Transition” in the Domain Source column. Some ratings, including Education, Training, and Experience ratings, are not available. These occupations will be updated through the O*NET Data Collection program with data from job incumbents and occupation experts, replacing the transitional data in future releases of the O*NET Database.

Apart from the taxonomy changes, alternate titles were added or revised for 370 occupations, as part of the ongoing effort to improve and update the O*NET Database.

Overall, release 25.1 includes the following:

- Codes, titles, and descriptions for 1,016 O*NET-SOC 2019 occupations
- Task statements for 923 O*NET-SOC 2019 occupations in the O*NET Data Collection Plan
- Update of 821 O*NET-SOC 2019 occupations through the O*NET Data Collection program with data from job incumbents and occupational experts

- Addition of transitional data for 53 O*NET-SOC 2019 occupations, based on data previously collected through the O*NET Data Collection program
- Addition and update of Alternate Titles and Sample of Reported Titles for 497 occupations
- Addition and update of Technology Skills and Tools Used for 98 occupations

Release 25.0 included the following:

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 100 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 100 occupations
- Addition and update of Training and Work Experience and Education data for 100 occupations
- Addition and update of Work Styles data for 100 occupations
- Addition and update of Job Zones data for 100 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 79 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 245 occupations

Release 24.3 included the following:

- 431 technology skills related to 167 occupations were updated from employer job postings. Currently, 175 “hot technologies” are identified.
- 122 alternate titles related to 80 occupations were added from employer job postings and other sources.

Release 24.2 included the following:

- New “Cross-Domain Linkages” section with linkages between:
 - [Abilities to relevant Work Activities](#);
 - [Abilities to relevant Work Context](#);
 - Skills to relevant Work Activities;
 - Skills to relevant Work Context.
- Removal of:
 - “Tools and Technology” file, which was deprecated in the 23.2 release. Developers should use the [Technology Skills](#) and “Tools Used” files instead.
 - “Green Occupations,” “Green Task Statements,” “Green DWA Reference,” and “Tasks to Green DWAs.” Developers interested in retaining this information may continue to use the files as published in the 24.1 release, available on the [Archived data releases](https://www.onetcenter.org/db_releases.html) [https://www.onetcenter.org/db_releases.html] page.
- 441 technology skills related to 98 occupations were updated from employer job postings and other sources. Currently, 161 “hot technologies” are identified. This update includes information linked to 100 occupations which underwent a “spotlight” or detailed review by occupational analysts.
- 162 alternate titles related to 103 occupations were added from employer job postings and other sources.

Release 24.1 included the following:

- 1,416 technology skills related to 322 occupations were updated from employer job postings and other sources. Currently, 161 “hot technologies” are identified. This update includes information linked to 100 occupations which underwent a “spotlight” or detailed review by occupational analysts.
- 170 alternate titles related to 102 occupations were added from employer job postings and other sources.

Release 24.0 included the following:

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 100 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 100 occupations
- Addition and update of Training and Work Experience and Education data for 100 occupations
- Addition and update of Work Styles data for 100 occupations
- Addition and update of Job Zones data for 100 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 63 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 299 occupations

Release 23.3 included the following:

- 197 technology skills related to 101 occupations were updated from employer job postings. Currently, 182 “hot technologies” are identified.
- 209 alternate titles related to 118 occupations were added from employer job postings and other sources.

Release 23.2 included the following:

- 339 technology skills related to 133 occupations were updated from employer job postings and other sources. Currently, 186 “hot technologies” are identified.
- 150 alternate titles related to 84 occupations were added from employer job postings and other sources.

This release adds two new files, [Technology Skills](#) and “Tools Used.” Developers currently using the “Tools and Technology” file should transition to using these new files instead. The “Tools and Technology” file is deprecated and will be removed in a future release of the O*NET Database.

Release 23.1 included the following:

- 946 technology skills related to 197 occupations were updated from employer job postings. Currently, 192 “hot technologies” are identified.
- 191 alternate titles related to 100 occupations were added from employer job postings and other sources.

Release 23.0 included the following:

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 100 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 100 occupations
- Addition and update of Training and Work Experience and Education data for 100 occupations
- Addition and update of Work Styles data for 100 occupations
- Addition and update of Job Zones data for 100 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 33 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 294 occupations

Release 22.3 included the following:

- 460 technology skills related to 125 occupations were updated from employer job postings and other sources. Currently, 186 “hot technologies” are identified.
- 273 alternate titles related to 120 occupations were added from employer job postings and other sources.

Release 22.2 included the following:

- 158 technology skills and 45 tools related to 83 occupations were updated from employer job postings and other sources. Currently, 178 “hot technologies” are identified.
- 215 alternate titles related to 98 occupations were added from employer job postings and other sources.

Release 22.1 included the following:

- 408 technology skills and 88 tools related to 132 occupations were updated from employer job postings and other sources. This update includes information linked to 50 occupations with a bright outlook and/or apprenticeship opportunities which underwent a “spotlight” or detailed review by occupational analysts.
- 352 alternate titles related to 151 occupations were added from employer job postings and other sources.

Release 22.0 included the following:

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 100 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 100 occupations
- Addition and update of Training and Work Experience and Education data for 100 occupations
- Addition and update of Work Styles data for 100 occupations
- Addition and update of Job Zones data for 100 occupations

- Addition and update of Detailed Work Activities (DWAs) and linkages for 38 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 121 occupations

Release 21.3 included the following:

- 80 alternate titles related to 40 occupations were added from professional association and customer input, transactional analyses, and occupational code requests.
- 80 technology skill examples related to 54 occupations were added from employer job postings.

Release 21.2 included the following:

- 343 alternate titles related to 140 occupations were added from employer job postings and other sources.
- 69 technology skill examples and 7 tools used related to 59 occupations were added from employer job postings and other sources.

Release 21.1 included the following:

- 178 new technology examples related to 85 occupations were added from employer job postings and other sources.
- Sample of Reported Titles selections for 10 occupations were updated to reflect titles frequently reported by job incumbents.

Release 21.0 included the following:

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 116 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 116 occupations
- Addition and update of Training and Work Experience and Education data for 116 occupations
- Addition and update of Work Styles data for 116 occupations
- Addition and update of Job Zones data for 116 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 56 occupations
- Addition and update of Alternate Titles and Sample of Reported Titles for 116 occupations
- 121 new technologies are added across 134 occupations, including the identification of 17 additional "hot technologies"

Release 20.3 included the following:

- 626 new technology examples related to 144 occupations were added from employer job postings and other sources.
- 30 new alternate titles related to 5 occupations were added from customer and professional association input.

Release 20.2 included the following:

- 857 new alternate titles related to 266 occupations were added from employer job postings and other sources.
- 1,015 new technology examples related to 414 occupations were added from employer job postings and other sources.

Release 20.1 included the following:

- Data from the Lay/Alternate Titles, Sample of Reported Titles, Related Occupations, Tools & Technology, and Emerging Tasks projects are now included in the O*NET Database. These were previously available as separate supplemental file downloads.
- 769 new alternate titles related to 247 occupations were added from employer job postings and other sources.
- 2,332 new technology examples related to 272 occupations were added from employer job postings.
- All database files can be downloaded in Microsoft Excel format, in addition to the existing formats of tab-delimited text, and SQL files for MySQL, Microsoft SQL Server, or Oracle.

Release 20.0 included the following:

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 102 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 102 occupations
- Addition and update of Training and Work Experience and Education data for 102 occupations
- Addition and update of Work Styles data for 102 occupations
- Addition and update of Job Zones data for 102 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 56 occupations

Release 19.0 included the following:

- Addition and update of Task Statement ratings (importance, relevance, and frequency) for 126 occupations
- Addition and update of Abilities, Skills, Work Activities, Knowledge, and Work Context data for 126 occupations
- Addition and update of Training and Work Experience and Education data for 126 occupations
- Addition and update of Work Styles data for 126 occupations
- Addition and update of Job Zones data for 126 occupations
- Addition and update of Detailed Work Activities (DWAs) and linkages for 126 occupations

Release 18.1 contained the following:

This release includes newly developed Detailed Work Activities (DWAs) data, along with broader Intermediate Work Activities (IWAs) and a separate set of Green DWAs. See the

report *Work Activities Project Technical Report* for details (http://www.onetcenter.org/reports/DWA_2014.html).

The 18.1 release contains five new files:

- DWA Reference.txt
- Green DWA Reference.txt
- IWA Reference.txt
- Tasks to DWAs.txt
- Tasks to Green DWAs.txt

All other files are unchanged from the 18.0 release.

Release 18.0 contained 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)

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 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)

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 [O*NET Database Content Changes 5.0 - 15.1](#). 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 updated through the O*NET Data Collection program with data from job incumbents and occupation experts.

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 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
- Update of 838 O*NET-SOC 2010 occupations through the O*NET Data Collection program with data from job incumbents and occupation experts

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)

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

The O*NET 14.0 database is the 1st 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 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)

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 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 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)

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

The O*NET 10.0 database was the 1st 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 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)

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 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 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 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 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

O*NET Database 5.0 – First Data Collection Release

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

O*NET Database 4.0 – Final Analyst Database

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>)

Appendix 5. Historical Summary of Database Content Changes

Click a file name to jump to full description and history. **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.

	28.2	28.3	29.0	29.1	29.2	29.3	30.0	30.1	30.2	30.3
Knowledge	C		U				U			
Skills	C		U				U			
Essential Skills										
Transferable Skills										May 2026 C
Abilities	C		U				U			
Education, Training, and Experience	C	t Changes 28.2 - 30.3			C		U			
Education, Training, and Experience Categories										
Education										
Education Categories										
Training and Experience										
Training and Experience Categories										
Job Zones			U	U			U		C	U
Job Zone Reference									C	
Career Interest Types									U	
Specific Interest Areas										N
Work Values										
Work Styles	C		U				U	U,C		
Task Statements		C	U				U	U		
Task Ratings	C		U				U			
Task Categories										
Emerging Tasks			U,C			U	U			
Software Skills	U	U		U		U		U		U
Tools Used	U			U				U		
UNSPSC Reference								U		
Work Activities	C		U				U			
GWAs to IWAs										C
GWAs to IWAs to DWAs										C
Tasks to DWAs			U				U	U		C
Work Context	C		U		C		U			
Work Context Categories					C					
Occupation Data										
Job Titles		U	U		U		U	U	U	
Sample of Reported Titles		U	U		U		U		U	
Related Occupations	U							U		
Content Model Reference					C			C		N,C
Occupation Level Metadata			U				U			
Level Scale Anchors									C	C
Scales Reference								N		N
Survey Booklet Locations					C			C		
Abilities to Work Activities										
Abilities to Work Context					C					
Skills to Work Activities										
Essential Skills to Work Activities										C
Transferable Skills to Work Activities										C
Skills to Work Context					C					
Essential Skills to Work Context										C
Transferable Skills to Work Context										C
Career Interest Type Keywords										
Specific Interest Areas to Career Interest Types										C
Interests Illustrative Activities										C
Interests Illustrative Occupations										C
Work Styles to Work Activities										N
Work Styles to Work Context										N

O*NET Database Content Changes 25.1 - 28.1

	Release												
	25.1	25.2	25.3	26.0	26.1	26.2	26.3	27.0	27.1	27.2	27.3	28.0	28.1
Knowledge	C			U				U				U	
Skills	C			U				U				U	
Abilities	C			U				U				U	
Education, Training, and Experience	C			U				U				U	
Education, Training, and Experience Categories													
Job Zones	C			U	C			U				U	
Job Zone Reference													
Career Interest Types	C												U
Work Values	C												
Work Styles	C			U				U				U	
Task Statements	U,C			U				U				U	C
Task Ratings	C			U				U				U	
Task Categories													
Emerging Tasks	C			U				U				U	
Software Skills	U	U	U		U	U	U		U,N		U		U
Tools Used	U	U	U		U	U	U						
UNSPSC Reference		U			U								
Work Activities	C			U				U				U	
GWAs to IWAs													
GWAs to IWAs to DWAs	U			U									
Tasks to DWAs	U,C			U				U				U	
Work Context	C			U				U				U	
Work Context Categories													
Occupation Data	C												
Job Titles	U,C		U	U	U	U		U	U	U		U	U
Sample of Reported Titles	U,C		U	U	U	U		U		U		U	
Career Changers Matrix	C												
Career Starters Matrix	C												
Related Occupations							N						
Content Model Reference				C	C					C		C	
Occupation Level Metadata	C			U				U				U	
Level Scale Anchors				C	C								
Scales Reference													
Survey Booklet Locations													
Abilities to Work Activities													
Abilities to Work Context													
Skills to Work Activities				C									
Skills to Work Context				C									
Career Interest Type Keywords										N			
Specific Interest Areas to Career Interest Types										N			
Interests Illustrative Activities										N	N		
Interests Illustrative Occupations										N			

O*NET Database Content Changes 22.0 - 25.0

	Release												
	22.0	22.1	22.2	22.3	23.0	23.1	23.2	23.3	24.0	24.1	24.2	24.3	25.0
Knowledge	U				U				U				U
Skills	U				U				U				U
Abilities	U				U				U				U
Education, Training, and Experience	U				U				U				U
Education, Training, and Experience Categories													
Job Zones	U				U				U				U
Job Zone Reference									C				
Career Interest Types													
Work Values													
Work Styles	U				U				U				U
Task Statements	U				U				U				U
Task Ratings	U				U				U				U
Task Categories													
Emerging Tasks	U				U				U				U
Software Skills							U	U		U	U	U	
Tools Used							U			U			
Tools and Technology		U	U	U		U	U	U		U			
UNSPSC Reference		U	U										
Work Activities	U				U				U				U
GWAs to IWAs													
GWAs to IWAs to DWAs									U				
Tasks to DWAs	U				U				U				U
Work Context	U				U				U				U
Work Context Categories													
Occupation Data													
Job Titles	U	U	U	U	U	U		U	U	U	U	U	U
Sample of Reported Titles	U		U	U	U	U	U	U	U	U	U	U	U
Career Changers Matrix													
Career Starters Matrix													
Green Occupations													
Green Task Statements	U				U				U				
Tasks to Green DWAs	U				U				U				
Green DWA Reference													
Content Model Reference													
Occupation Level Metadata	U				U				U				U
Level Scale Anchors													
Scales Reference													
Survey Booklet Locations	N,C												
Abilities to Work Activities											N		
Abilities to Work Context											N		
Skills to Work Activities											N		
Skills to Work Context											N		

O*NET Database Content Changes 16.0 - 21.3

	Release												
	16.0	17.0	18.0	18.1	19.0	20.0	20.1	20.2	20.3	21.0	21.1	21.2	21.3
Knowledge	U	U	U		U	U				U			
Skills	U	U	U		U	U				U			
Abilities	U	U	U		U	U				U			
Education, Training, and Experience	U	U	U		U	U				U			
Education, Training, and Experience Categories													
Job Zones	U	U	U		U	U				U			
Job Zone Reference					C					C			
Career Interest Types			U										
Work Values		U											
Work Styles	U	U	U		U	U				U			
Task Statements	U,C	U	U		U	U				U			
Task Ratings	U	U	U		U	U				U			
Task Categories													
Emerging Tasks							N			U			
Tools and Technology							N	U	U	U,N	U	U	U
UNSPSC Reference							N	U			U	U	
Work Activities	U	U	U		U	U				U			
GWAs to IWAs				N									
GWAs to IWAs to DWAs				N	U								
Tasks to DWAs				N	U	U				U			
Work Context	U	U	U		U	U				U			
Work Context Categories													
Occupation Data													
Job Titles							N	U	U	U		U	U
Sample of Reported Titles							N			U	U		U
Career Changers Matrix							N						
Career Starters Matrix							N						
Green Occupations	N												
Green Task Statements	N	U	U		U	U				U			
Tasks to Green DWAs				N	U	U				U			
Green DWA Reference				N									
Content Model Reference					N,C	N,C				N,C			
Occupation Level Metadata	U,C	U	U		U	U				U,N,C			
Level Scale Anchors													
Scales Reference													
Survey Booklet Locations	C				C								

O*NET Database Content Changes 5.0 - 15.1

	Release												
	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
Knowledge	U	N	U	U	U	U	U,C	U	U	U	U	U	C
Skills	U,N	N	U	U	U	U	U,C	U	U	U	U,C	U	C
Abilities	U,N	N,C	U	U	U	U	U,C	U	U	U	U	U	C
Education, Training, and Experience	N	N	U	U	U	U	U,C	U	U	U	U	U	C
Education, Training, and Experience Categories						C							
Job Zones		N	U	U	U,C	U,C	U,C	U	U,C	U	U	U	C
Job Zone Reference						C					C		
Career Interest Types	N						C			U	U		C
Work Values	N						C			U	U		C
Work Styles	N	N	U	U	U	U	U,C	U	U	U	U	U	C
Tasks	U,N	U,N,C	U,N,C	U,N,C	U,N,C	U,N,C	U,N,C	U	U				
Task Statements										U,C	U	U	C
Task Ratings										U,C	U	U	C
Task Categories										C			
Work Activities	U,N	N	U	U	U	U	U,C	U	U	U	U	U	C
Work Context	U,N	N	U	U	U	U	U,C	U	U	U	U	U	C
Work Context Categories						C							
Occupation Data			U,C		C	C	C				C	U	C
Content Model Reference						C		C		N,C			
Occupation Level Metadata		N	U	U	U	U	U,C	U	U	U	U	U	C
Level Scale Anchors		N	U		C	C							
Scales Reference		C								N,C			
Survey Booklet Locations	N									N,C			