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### Data Collection

- Content Model Reference
- Occupation Level Metadata
- Level Scale Anchors
- Scales Reference
- Survey Booklet Locations

### Appendices

1. Item Rating Level Statistics - Analyst
2. Item Rating Level Statistics - Incumbent
3. Key to Occupation Level Metadata
4. Content Updates Since Release 4.0
5. Historical Summary of Database Content Changes
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.

The content of the O*NET 22.3 Database is licensed under a Creative Commons Attribution 4.0 International License [https://creativecommons.org/licenses/by/4.0/]. See the Database license page [https://www.onetcenter.org/license_db.html] for more information.
Knowledge, Skills, Abilities
Knowledge

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

File Name: Knowledge.txt

Structure and Description:

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<th>Type</th>
<th>Column Content</th>
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</tr>
<tr>
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<td>Content Model Outline Position (see Content Model Reference)</td>
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<td>Scale ID (see Scales Reference)</td>
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<td>Lower CI Bound</td>
<td>Float(5,2)</td>
<td>Lower 95% confidence interval bound</td>
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<td>Upper CI Bound</td>
<td>Float(5,2)</td>
<td>Upper 95% confidence interval bound</td>
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<td>Character(1)</td>
<td>Low precision indicator (Y=yes, N=no)</td>
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<td>Date when data was updated</td>
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<tr>
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<td>Character Varying(30)</td>
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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 63,756 rows of data in this file.

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

**File Name:** Skills.txt

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<td>O*NET-SOC Code</td>
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<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
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<tr>
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<td>Float(5,2)</td>
<td>Upper 95% confidence interval bound</td>
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<td>Character(1)</td>
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<tr>
<td>Not Relevant</td>
<td>Character(1)</td>
<td>Not relevant for the occupation (Y=yes, N=no)</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
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This file contains the Content Model 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 67,620 rows of data in this file.

For more information, see:


**File Structure Changes:**

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<th>Element Name</th>
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<th>Domain Source</th>
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<tbody>
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<td>3.50</td>
<td>8</td>
<td>0.19</td>
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<td>N</td>
<td>n/a</td>
<td>07/2017</td>
<td>Analyst</td>
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<td>2.A.1.a</td>
<td>Reading Comprehension</td>
<td>LV</td>
<td>3.50</td>
<td>8</td>
<td>0.19</td>
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</table>
Abilities

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

File Name: Abilities.txt

Structure and Description:

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<th>Column</th>
<th>Type</th>
<th>Column Content</th>
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<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
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<td>Character Varying(150)</td>
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<td>Upper CI Bound</td>
<td>Float(5,2)</td>
<td>Upper 95% confidence interval bound</td>
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<td>Recommend Suppress</td>
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<tr>
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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 100,464 rows of data in this file.

For more information, see:

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

File Structure Changes:

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<th>Scale ID</th>
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<td>1.93</td>
<td>2.57</td>
<td>N</td>
<td>N</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>35-2021.00</td>
<td>A.1.a.4</td>
<td>Written Expression</td>
<td>IM</td>
<td>2.25</td>
<td>8</td>
<td>0.16</td>
<td>1.93</td>
<td>2.57</td>
<td>N</td>
<td>n/a</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>35-2021.00</td>
<td>A.1.a.4</td>
<td>Written Expression</td>
<td>LV</td>
<td>2.12</td>
<td>8</td>
<td>0.13</td>
<td>1.88</td>
<td>2.37</td>
<td>N</td>
<td>N</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
</tbody>
</table>
Education, Experience, Training
Education, Training, and Experience

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

File Name: Education, Training, and Experience.txt

Structure and Description:

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

This file contains the percent frequency data associated with Education, Training, and Experience Content Model elements. It is displayed in 13 tab delimited fields and identified using the column names provided above. Item rating level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Date, and Domain Source. Refer to Appendix 2, Item Rating Level Statistics - Incumbent for additional information on these items. The 13 fields are represented by one row. There are a total of 39,535 rows of data in this file.

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>5.1</td>
<td>Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, and Recommend Suppress</td>
</tr>
<tr>
<td>6.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
### Data Example - Education, Training, and Experience:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Element ID</th>
<th>Element Name</th>
<th>Scale ID</th>
<th>Category</th>
<th>Data Value</th>
<th>N</th>
<th>Standard Error</th>
<th>Lower CI Bound</th>
<th>Upper CI Bound</th>
<th>Recommend</th>
<th>Suppress</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>1</td>
<td>0.00</td>
<td>22</td>
<td>0.00</td>
<td>n/a</td>
<td>n/a</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>2</td>
<td>43.06</td>
<td>22</td>
<td>14.76</td>
<td>17.78</td>
<td>72.55</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>3</td>
<td>21.36</td>
<td>22</td>
<td>9.24</td>
<td>7.96</td>
<td>46.03</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>4</td>
<td>10.38</td>
<td>22</td>
<td>6.73</td>
<td>2.50</td>
<td>34.28</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>5</td>
<td>7.77</td>
<td>22</td>
<td>6.56</td>
<td>1.24</td>
<td>36.15</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>6</td>
<td>17.44</td>
<td>22</td>
<td>15.40</td>
<td>2.23</td>
<td>66.15</td>
<td>Y</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>7</td>
<td>0.00</td>
<td>22</td>
<td>0.00</td>
<td>n/a</td>
<td>n/a</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>8</td>
<td>0.00</td>
<td>22</td>
<td>0.00</td>
<td>n/a</td>
<td>n/a</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>9</td>
<td>0.00</td>
<td>22</td>
<td>0.00</td>
<td>n/a</td>
<td>n/a</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>10</td>
<td>0.00</td>
<td>22</td>
<td>0.00</td>
<td>n/a</td>
<td>n/a</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>11</td>
<td>0.00</td>
<td>22</td>
<td>0.00</td>
<td>n/a</td>
<td>n/a</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>49-2022.00</td>
<td>2.D.1</td>
<td>Required Level of Education</td>
<td>RL</td>
<td>12</td>
<td>0.00</td>
<td>22</td>
<td>0.00</td>
<td>n/a</td>
<td>n/a</td>
<td>N</td>
<td></td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
</tbody>
</table>
Education, Training, and Experience Categories

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

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

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
</tr>
<tr>
<td>Element Name</td>
<td>Character Varying(150)</td>
<td>Content Model Element Name (see Content Model Reference)</td>
</tr>
<tr>
<td>Scale ID</td>
<td>Character Varying(3)</td>
<td>Scale ID (see Scales Reference)</td>
</tr>
<tr>
<td>Category</td>
<td>Integer(3)</td>
<td>Category value associated with element</td>
</tr>
<tr>
<td>Category Description</td>
<td>Character Varying(1000)</td>
<td>Detail description of category associated with element</td>
</tr>
</tbody>
</table>

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

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

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.0</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>10.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Education, Training, and Experience Categories:

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

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

File Name: Job Zones.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Job Zone</td>
<td>Integer(1)</td>
<td>Job Zone number (see Job Zone Reference)</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
<td>Source of the data</td>
</tr>
</tbody>
</table>

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 967 rows of data in this file.

For more information, see:

- Procedures for O*NET Job Zone Assignment [http://www.onetcenter.org/reports/JobZoneProcedure.html]

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>No structure changes</td>
</tr>
<tr>
<td>5.1</td>
<td>Date and Domain Source columns added</td>
</tr>
<tr>
<td>6.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Job Zones:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Job Zone</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-4021.00</td>
<td>5</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>43-9022.00</td>
<td>2</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>17-3029.06</td>
<td>4</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>45-4023.00</td>
<td>2</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>39-1012.00</td>
<td>2</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>27-3021.00</td>
<td>4</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job Zone</td>
<td>Integer(1)</td>
<td>Job Zone number</td>
</tr>
<tr>
<td>Name</td>
<td>Character Varying(50)</td>
<td>Job Zone name/zone</td>
</tr>
<tr>
<td>Experience</td>
<td>Character Varying(300)</td>
<td>Job Zone experience requirements</td>
</tr>
<tr>
<td>Education</td>
<td>Character Varying(500)</td>
<td>Job Zone educational requirements</td>
</tr>
<tr>
<td>Job Training</td>
<td>Character Varying(300)</td>
<td>Job Zone training requirements</td>
</tr>
<tr>
<td>Examples</td>
<td>Character Varying(500)</td>
<td>Job Zone examples</td>
</tr>
<tr>
<td>SVP Range</td>
<td>Character Varying(25)</td>
<td>Specific vocational preparation range</td>
</tr>
</tbody>
</table>

This file describes the five 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 5 rows of data in this file.

For more information, see:

- Procedures for O*NET Job Zone Assignment [http://www.onetcenter.org/reports/JobZoneProcedure.html]

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
## Data Example - Job Zone Reference:

<table>
<thead>
<tr>
<th>Job Zone</th>
<th>Name</th>
<th>Experience</th>
<th>Education</th>
<th>Job Training</th>
<th>Examples</th>
<th>SVP Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Job Zone One: Little or No Preparation Needed</td>
<td>Little or no previous work-related skill, knowledge, or experience is needed for these occupations. For example, a person can become a waiter or waitress even if he/she has never worked before.</td>
<td>Some of these occupations may require a high school diploma or GED certificate.</td>
<td>Employees in these occupations need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.</td>
<td>These occupations involve following instructions and helping others. Examples include counter and rental clerks, dishwashers, cashiers, landscaping and groundskeeping workers, logging equipment operators, and baristas.</td>
<td>(Below 4.0)</td>
</tr>
<tr>
<td>2</td>
<td>Job Zone Two: Some Preparation Needed</td>
<td>Some previous work-related skill, knowledge, or experience is usually needed. For example, a teller would benefit from experience working directly with the public.</td>
<td>These occupations usually require a high school diploma.</td>
<td>Employees in these occupations need anywhere from a few months to one year of working with experienced employees. A recognized apprenticeship program may be associated with these occupations.</td>
<td>These occupations often involve using your knowledge and skills to help others. Examples include orderlies, forest firefighters, customer service representatives, security guards, upholsterers, and tellers.</td>
<td>(4.0 to &lt; 6.0)</td>
</tr>
<tr>
<td>3</td>
<td>Job Zone Three: Medium Preparation Needed</td>
<td>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.</td>
<td>Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree.</td>
<td>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.</td>
<td>These occupations usually involve using communication and organizational skills to coordinate, supervise, manage, or train others to accomplish goals. Examples include hydroelectric production managers, travel guides, electricians, agricultural technicians, barbers, nannies, and medical assistants.</td>
<td>(6.0 to &lt; 7.0)</td>
</tr>
</tbody>
</table>
Interests, Work Values, Work Styles
Interests

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

File Name: Interests.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
</tr>
<tr>
<td>Element Name</td>
<td>Character Varying(150)</td>
<td>Content Model Element Name (see Content Model Reference)</td>
</tr>
<tr>
<td>Scale ID</td>
<td>Character Varying(3)</td>
<td>Scale ID (see Scales Reference)</td>
</tr>
<tr>
<td>Data Value</td>
<td>Float(5,2)</td>
<td>Rating associated with the O*NET-SOC occupation</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
<td>Source of the data</td>
</tr>
</tbody>
</table>

This file contains the Content Model Interest data associated with each O*NET-SOC occupation.

Interest 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 8,766 rows of data in this file.

For more information, see:

- Linking Client Assessment Profiles to O*NET® Occupational Profiles Within the O*NET Interest Profiler Short Form and Mini Interest Profiler (Mini-IP) [http://www.onetcenter.org/reports/Mini-IP_Linking.html]
• Development of an O*NET® Mini Interest Profiler (Mini-IP) for Mobile Devices: Psychometric Characteristics [http://www.onetcenter.org/reports/Mini-IP.html]

• Examining the Efficacy of Emoji Anchors for the O*NET Interest Profiler Short Form [http://www.onetcenter.org/reports/IP_Emoji.html]

• O*NET Interest Profiler Short Form Psychometric Characteristics: Summary [http://www.onetcenter.org/reports/IPSF_Psychometric.html]

File Structure Changes:

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Data Example - Interests:

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

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

File Name: Work Values.txt

Structure and Description:

<table>
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<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
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<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
</tr>
<tr>
<td>Element Name</td>
<td>Character Varying(150)</td>
<td>Content Model Element Name (see Content Model Reference)</td>
</tr>
<tr>
<td>Scale ID</td>
<td>Character Varying(3)</td>
<td>Scale ID (see Scales Reference)</td>
</tr>
<tr>
<td>Data Value</td>
<td>Float(5,2)</td>
<td>Rating associated with the O*NET-SOC occupation</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
<td>Source of the data</td>
</tr>
</tbody>
</table>

This file contains the Content Model Work Values data associated with each O*NET-SOC occupation.

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

The high-point values represent the following elements:

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

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 8,766 rows of data in this file.

For more information, see:

### File Structure Changes:

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<tbody>
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### Data Example - Work Values:

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<tr>
<th>O*NET-SOC Code</th>
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<th>Element Name</th>
<th>Scale ID</th>
<th>Data Value</th>
<th>Date</th>
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<td>Analyst</td>
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<tr>
<td>15-1143.01</td>
<td>1.B.2.b</td>
<td>Working Conditions</td>
<td>EX</td>
<td>4.67</td>
<td>07/2012</td>
<td>Analyst</td>
</tr>
<tr>
<td>15-1143.01</td>
<td>1.B.2.c</td>
<td>Recognition</td>
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<td>4.00</td>
<td>07/2012</td>
<td>Analyst</td>
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<td>15-1143.01</td>
<td>1.B.2.d</td>
<td>Relationships</td>
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<td>07/2012</td>
<td>Analyst</td>
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<td>1.B.2.e</td>
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<td>1.B.2.f</td>
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<td>3.67</td>
<td>07/2012</td>
<td>Analyst</td>
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<td>15-1143.01</td>
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<td>First Work Value High-Point</td>
<td>VH</td>
<td>1.00</td>
<td>07/2012</td>
<td>Analyst</td>
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<td>15-1143.01</td>
<td>1.B.2.h</td>
<td>Second Work Value High-Point</td>
<td>VH</td>
<td>5.00</td>
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<td>VH</td>
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<td>Analyst</td>
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Work Styles

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

**File Name:** Work Styles.txt

**Structure and Description:**

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

This file contains the Content Model Work Styles data associated with each O*NET-SOC occupation. It is displayed in 12 tab delimited fields and identified using the column names provided above. Item rating level metadata is provided in columns named N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, Date, and Domain Source. Refer to [Appendix 2, Item Rating Level Statistics - Incumbent](#) for additional information on these items. The 12 fields are represented by one row. There are a total of 15,440 rows of data in this file.

**File Structure Changes:**

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<td>No structure changes</td>
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## Data Example - Work Styles:

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<th>Element Name</th>
<th>Scale ID</th>
<th>Data Value</th>
<th>N</th>
<th>Standard Error</th>
<th>Lower CI Bound</th>
<th>Upper CI Bound</th>
<th>Recommend Suppress</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>51-9151.00</td>
<td>1.C.1.a</td>
<td>Achievement/Effort</td>
<td>IM</td>
<td>3.02</td>
<td>27</td>
<td>0.18</td>
<td>2.65</td>
<td>3.39</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>1.C.1.b</td>
<td>Persistence</td>
<td>IM</td>
<td>3.35</td>
<td>27</td>
<td>0.27</td>
<td>2.80</td>
<td>3.90</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
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<tr>
<td>51-9151.00</td>
<td>1.C.1.c</td>
<td>Initiative</td>
<td>IM</td>
<td>3.87</td>
<td>27</td>
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<td>3.42</td>
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<td>07/2017</td>
<td>Incumbent</td>
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<td>51-9151.00</td>
<td>1.C.2.b</td>
<td>Leadership</td>
<td>IM</td>
<td>3.32</td>
<td>27</td>
<td>0.34</td>
<td>2.62</td>
<td>4.02</td>
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<td>07/2017</td>
<td>Incumbent</td>
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<tr>
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<td>1.C.3.a</td>
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<td>27</td>
<td>0.17</td>
<td>3.95</td>
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<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>1.C.3.b</td>
<td>Concern for Others</td>
<td>IM</td>
<td>3.83</td>
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<td>0.25</td>
<td>3.33</td>
<td>4.34</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>1.C.3.c</td>
<td>Social Orientation</td>
<td>IM</td>
<td>3.21</td>
<td>27</td>
<td>0.27</td>
<td>2.66</td>
<td>3.76</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
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<td>51-9151.00</td>
<td>1.C.4.a</td>
<td>Self Control</td>
<td>IM</td>
<td>4.30</td>
<td>27</td>
<td>0.17</td>
<td>3.96</td>
<td>4.65</td>
<td>N</td>
<td>07/2017</td>
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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:**

<table>
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<th>Column</th>
<th>Type</th>
<th>Column Content</th>
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</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Task ID</td>
<td>Integer(8)</td>
<td>Identifies each task</td>
</tr>
<tr>
<td>Task</td>
<td>Character Varying(1000)</td>
<td>Task statement associated with an occupation</td>
</tr>
<tr>
<td>Task Type</td>
<td>Character Varying(12)</td>
<td>“Core” or “Supplemental”</td>
</tr>
<tr>
<td>Incumbents Responding</td>
<td>Integer(4)</td>
<td>Number of incumbents providing task information</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
<td>Source of the data</td>
</tr>
</tbody>
</table>

This file contains the tasks associated with each O*NET-SOC occupation.

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 19,612 rows of data in this file.

For more information, see:

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

**File Structure Changes:**

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<td>14.0 - 22.3</td>
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Data Example - Task Statements:

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<th>O*NET-SOC Code</th>
<th>Task ID</th>
<th>Task</th>
<th>Task Type</th>
<th>Incumbents Responding</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>27-2041.01</td>
<td>13042</td>
<td>Use gestures to shape the music being played, communicating desired tempo, phrasing, tone, color, pitch, volume, and other performance aspects.</td>
<td>Core</td>
<td>78</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>27-2041.01</td>
<td>13043</td>
<td>Direct groups at rehearsals and live or recorded performances to achieve desired effects such as tonal and harmonic balance, dynamics, rhythm, and tempo.</td>
<td>Core</td>
<td>78</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>27-2041.01</td>
<td>13046</td>
<td>Study scores to learn the music in detail, and to develop interpretations.</td>
<td>Core</td>
<td>77</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>27-2041.01</td>
<td>13045</td>
<td>Consider such factors as ensemble size and abilities, availability of scores, and the need for musical variety, to select music to be performed.</td>
<td>Core</td>
<td>78</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>27-2041.01</td>
<td>13050</td>
<td>Audition and select performers for musical presentations.</td>
<td>Core</td>
<td>76</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>27-2041.01</td>
<td>13044</td>
<td>Plan and schedule rehearsals and performances, and arrange details such as locations, accompanists, and instrumentalists.</td>
<td>Core</td>
<td>77</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>27-2041.01</td>
<td>13047</td>
<td>Position members within groups to obtain balance among instrumental or vocal sections.</td>
<td>Core</td>
<td>78</td>
<td>07/2017</td>
<td>Incumbent</td>
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</tbody>
</table>
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:

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<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
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<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Task ID</td>
<td>Integer(8)</td>
<td>Identifies each task (see Task Statements)</td>
</tr>
<tr>
<td>Scale ID</td>
<td>Character Varying(3)</td>
<td>Scale ID (see Scales Reference)</td>
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<tr>
<td>Category</td>
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<td>Rating associated with the O*NET-SOC occupation</td>
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<td>N</td>
<td>Integer(4)</td>
<td>Sample size</td>
</tr>
<tr>
<td>Standard Error</td>
<td>Float(5,2)</td>
<td>Standard Error</td>
</tr>
<tr>
<td>Lower CI Bound</td>
<td>Float(5,2)</td>
<td>Lower 95% confidence interval bound</td>
</tr>
<tr>
<td>Upper CI Bound</td>
<td>Float(5,2)</td>
<td>Upper 95% confidence interval bound</td>
</tr>
<tr>
<td>Recommend Suppress</td>
<td>Character(1)</td>
<td>Low precision indicator (Y=yes, N=no)</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
<td>Source of the data</td>
</tr>
</tbody>
</table>

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 173,637 rows of data in this file.

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.0</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>14.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
## Data Example - Task Ratings:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Task ID</th>
<th>Scale ID</th>
<th>Category</th>
<th>Data Value</th>
<th>N</th>
<th>Standard Error</th>
<th>Lower CI Bound</th>
<th>Upper CI Bound</th>
<th>Recommend Suppress</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>51-9151.00</td>
<td>19484</td>
<td>FT</td>
<td>1</td>
<td>0.00</td>
<td>59</td>
<td>0.00</td>
<td>n/a</td>
<td>n/a</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>19484</td>
<td>FT</td>
<td>2</td>
<td>0.00</td>
<td>59</td>
<td>0.00</td>
<td>n/a</td>
<td>n/a</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>19484</td>
<td>FT</td>
<td>3</td>
<td>1.54</td>
<td>59</td>
<td>1.61</td>
<td>0.19</td>
<td>11.52</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>19484</td>
<td>FT</td>
<td>4</td>
<td>6.41</td>
<td>59</td>
<td>6.06</td>
<td>0.90</td>
<td>34.07</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>19484</td>
<td>FT</td>
<td>5</td>
<td>17.36</td>
<td>59</td>
<td>6.30</td>
<td>8.02</td>
<td>33.61</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>19484</td>
<td>FT</td>
<td>6</td>
<td>21.77</td>
<td>59</td>
<td>6.70</td>
<td>11.24</td>
<td>37.96</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>19484</td>
<td>FT</td>
<td>7</td>
<td>52.91</td>
<td>59</td>
<td>6.61</td>
<td>39.79</td>
<td>65.65</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>19484</td>
<td>IM</td>
<td>n/a</td>
<td>4.65</td>
<td>60</td>
<td>0.11</td>
<td>4.42</td>
<td>4.88</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>51-9151.00</td>
<td>19484</td>
<td>RT</td>
<td>n/a</td>
<td>97.05</td>
<td>67</td>
<td>1.46</td>
<td>92.24</td>
<td>98.91</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
</tbody>
</table>
Task Categories

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

**File Name:** Task Categories.txt

**Structure and Description:**

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale ID</td>
<td>Character Varying(3)</td>
<td>Scale ID (see Scales Reference)</td>
</tr>
<tr>
<td>Category</td>
<td>Integer(3)</td>
<td>Category value associated with Scale ID</td>
</tr>
<tr>
<td>Category Description</td>
<td>Character Varying(1000)</td>
<td>Detail description of category associated with Scale ID</td>
</tr>
</tbody>
</table>

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:**

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.0</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>14.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

**Data Example - Task Categories:**

<table>
<thead>
<tr>
<th>Scale ID</th>
<th>Category</th>
<th>Category Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT</td>
<td>1</td>
<td>Yearly or less</td>
</tr>
<tr>
<td>FT</td>
<td>2</td>
<td>More than yearly</td>
</tr>
<tr>
<td>FT</td>
<td>3</td>
<td>More than monthly</td>
</tr>
<tr>
<td>FT</td>
<td>4</td>
<td>More than weekly</td>
</tr>
<tr>
<td>FT</td>
<td>5</td>
<td>Daily</td>
</tr>
<tr>
<td>FT</td>
<td>6</td>
<td>Several times daily</td>
</tr>
<tr>
<td>FT</td>
<td>7</td>
<td>Hourly or more</td>
</tr>
</tbody>
</table>
Emerging Tasks

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

File Name: Emerging Tasks.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Task</td>
<td>Character Varying(1000)</td>
<td>New or revised task associated with an occupation</td>
</tr>
<tr>
<td>Category</td>
<td>Character Varying(8)</td>
<td>“New” or “Revision”</td>
</tr>
<tr>
<td>Original Task ID</td>
<td>Integer(8)</td>
<td>Task ID referencing original task (see Task Statements)</td>
</tr>
<tr>
<td>Original Task</td>
<td>Character Varying(1000)</td>
<td>Original task being revised (see Task Statements)</td>
</tr>
<tr>
<td>Write-in Total</td>
<td>Integer(3)</td>
<td>Number of incumbents providing task</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
<td>Source of the data</td>
</tr>
</tbody>
</table>

This file contains new and revised task statements proposed for future data collection. In their survey responses during the on-going data collection, job incumbents are given the opportunity to provide any statements of tasks that they feel are not represented in the current survey task list for their respective occupations. Based on a review and analysis of such statements, drawn from the occupations in the initial data collection, revisions were made to existing tasks and emerging tasks were identified.

The file is displayed in 8 tab delimited fields with the columns named O*NET-SOC Code, Task, Category, Original Task ID, Original Task, Write-in Total, Date, and Domain Source. The 8 fields are represented by one row. There are a total of 406 rows of data in this file.

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>20.2 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
**Data Example - Emerging Tasks:**

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Task</th>
<th>Category</th>
<th>Original Task ID</th>
<th>Original Task</th>
<th>Write-in Total</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>45-4023.00</td>
<td>Move logs using heavy equipment such as log loaders.</td>
<td>New</td>
<td>n/a</td>
<td>n/a</td>
<td>7</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>35-3021.00</td>
<td>Clean and organize eating, service, and kitchen areas and sweep and mop floors.</td>
<td>Revision</td>
<td>18736</td>
<td>Clean and organize eating, service, and kitchen areas.</td>
<td>27</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
</tbody>
</table>
Tools & Technology
Tools and Technology

Purpose: Provide Tools and Technology examples.

File Name: Tools and Technology.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>T2 Type</td>
<td>Character Varying(10)</td>
<td>“Tools” or “Technology”</td>
</tr>
<tr>
<td>T2 Example</td>
<td>Character Varying(150)</td>
<td>Text of T2 example</td>
</tr>
<tr>
<td>Commodity Code</td>
<td>Integer(8)</td>
<td>UNSPSC commodity code (see UNSPSC Reference)</td>
</tr>
<tr>
<td>Commodity Title</td>
<td>Character Varying(150)</td>
<td>UNSPSC commodity title (see UNSPSC Reference)</td>
</tr>
<tr>
<td>Hot Technology</td>
<td>Character(1)</td>
<td>Whether example is classified as a hot technology (Y=yes, N=no)</td>
</tr>
</tbody>
</table>

This file contains the Tools and Technology examples, including hot technologies, associated with O*NET-SOC occupations. Each example is classified in two ways: the column “T2 Type” indicates whether the example is a tool or a technology (software product), and the columns “Commodity Code” and “Commodity Title” classify the example under the United Nations Standard Products and Services Code (UNSPSC). See the UNSPSC Reference section for more information.

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

We welcome feedback on the T2 database. We accept suggestions for new tools and technologies via our T2 feedback process [https://www.onetcenter.org/t2_feedback.html]. Suggestions will be considered for a future update of the T2 database.

The file is displayed in six tab delimited fields with the columns named O*NET-SOC Code, T2 Type, T2 Example, Commodity Code, Commodity Title, and Hot Technology. The six fields are represented by one row. There are a total of 68,689 rows of data in this file.

For more information, see:

- O*NET Center Tools and Technology Quality Control Processes [http://www.onetcenter.org/reports/T2_QC.html]
- O*NET Tools and Technology: A Synopsis of Data Development Procedures [http://www.onetcenter.org/reports/T2Development.html]
- Identification of “Hot Technologies” within the O*NET® System [http://www.onetcenter.org/reports/Hot_Technologies.html]
- Tools and Technology Search [http://www.onetcenter.org/reports/T2_Search.html]
File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>20.2 - 20.3</td>
<td>No structure changes</td>
</tr>
<tr>
<td>21.0</td>
<td>Added “Hot Technology” column</td>
</tr>
<tr>
<td>21.1 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Tools and Technology:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>T2 Type</th>
<th>T2 Example</th>
<th>Commodity Code</th>
<th>Commodity Title</th>
<th>Hot Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-2011.00</td>
<td>Technology</td>
<td>Actuate BIRT</td>
<td>43232314</td>
<td>Business intelligence and data analysis software</td>
<td>N</td>
</tr>
<tr>
<td>11-2011.00</td>
<td>Technology</td>
<td>Adobe Systems Acrobat</td>
<td>43232202</td>
<td>Document management software</td>
<td>Y</td>
</tr>
<tr>
<td>11-2011.00</td>
<td>Technology</td>
<td>Adobe Systems Adobe AfterEffects</td>
<td>43232103</td>
<td>Video creation and editing software</td>
<td>Y</td>
</tr>
<tr>
<td>11-2011.00</td>
<td>Technology</td>
<td>Adobe Systems Adobe Creative Suite</td>
<td>43232402</td>
<td>Development environment software</td>
<td>N</td>
</tr>
<tr>
<td>11-2011.00</td>
<td>Technology</td>
<td>Adobe Systems Adobe Dreamweaver</td>
<td>43232107</td>
<td>Web page creation and editing software</td>
<td>Y</td>
</tr>
</tbody>
</table>
UNSPSC Reference

**Purpose:** Provide relevant aspects of the UNSPSC taxonomy.

**File Name:** UNSPSC Reference.txt

**Structure and Description:**

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commodity Code</td>
<td>Integer(8)</td>
<td>UNSPSC commodity code</td>
</tr>
<tr>
<td>Commodity Title</td>
<td>Character Varying(150)</td>
<td>UNSPSC commodity title</td>
</tr>
<tr>
<td>Class Code</td>
<td>Integer(8)</td>
<td>UNSPSC class code</td>
</tr>
<tr>
<td>Class Title</td>
<td>Character Varying(150)</td>
<td>UNSPSC class title</td>
</tr>
<tr>
<td>Family Code</td>
<td>Integer(8)</td>
<td>UNSPSC family code</td>
</tr>
<tr>
<td>Family Title</td>
<td>Character Varying(150)</td>
<td>UNSPSC family title</td>
</tr>
<tr>
<td>Segment Code</td>
<td>Integer(8)</td>
<td>UNSPSC segment code</td>
</tr>
<tr>
<td>Segment Title</td>
<td>Character Varying(150)</td>
<td>UNSPSC segment title</td>
</tr>
</tbody>
</table>

This file contains a listing of commodities in the United Nations Standard Products and Services Code (UNSPSC), version 15.1101. The UNSPSC is a four-level taxonomy for the classification of products and services, provided by the United Nations Development Programme [http://www.unspsc.org/]. In the taxonomy, the Segment is the most general element and the Commodity is the most specific. One example is listed below:

Segment: 41000000 Laboratory and Measuring and Observing and Testing Equipment
Family: 41110000 Measuring and observing and testing instruments
Class: 41116200 Patient point of care testing supplies and equipment
Commodity: 41116201 Glucose monitors or meters

Each T2 example is classified under this taxonomy; the “Commodity Code” and “Commodity Title” columns in the Tools and Technology file can be used as a cross-reference into this file.

The file is displayed in 8 tab delimited fields with the columns named Commodity Code, Commodity Title, Class Code, Class Title, Family Code, Family Title, Segment Code, and Segment Title. The 8 fields are represented by one row. There are a total of 4,307 rows of data in this file.

For more information, see:

- [O*NET Center Tools and Technology Quality Control Processes](http://www.onetcenter.org/reports/T2_QC.html)
- [O*NET Tools and Technology: A Synopsis of Data Development Procedures](http://www.onetcenter.org/reports/T2Development.html)

**File Structure Changes:**

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>20.2 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
### Data Example - UNSPSC Reference:

<table>
<thead>
<tr>
<th>Commodity Code</th>
<th>Commodity Title</th>
<th>Class Code</th>
<th>Class Title</th>
<th>Family Code</th>
<th>Family Title</th>
<th>Segment Code</th>
<th>Segment Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>12131704</td>
<td>Explosive initiators</td>
<td>12131700</td>
<td>Igniters</td>
<td>12130000</td>
<td>Explosive materials</td>
<td>12000000</td>
<td>Chemicals including Bio Chemicals and Gas Materials</td>
</tr>
<tr>
<td>12131707</td>
<td>Lighters</td>
<td>12131700</td>
<td>Igniters</td>
<td>12130000</td>
<td>Explosive materials</td>
<td>12000000</td>
<td>Chemicals including Bio Chemicals and Gas Materials</td>
</tr>
<tr>
<td>14111513</td>
<td>Ledger paper</td>
<td>14111500</td>
<td>Printing and writing paper</td>
<td>14110000</td>
<td>Paper products</td>
<td>14000000</td>
<td>Paper Materials and Products</td>
</tr>
<tr>
<td>14111802</td>
<td>Receipts or receipt books</td>
<td>14111800</td>
<td>Business use papers</td>
<td>14110000</td>
<td>Paper products</td>
<td>14000000</td>
<td>Paper Materials and Products</td>
</tr>
</tbody>
</table>
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:

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

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 79,212 rows of data in this file.

For more information, see:


File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>Date and Source columns added</td>
</tr>
<tr>
<td>5.1</td>
<td>Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, and Not Relevant</td>
</tr>
<tr>
<td>6.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
**Data Example - Work Activities:**

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Element ID</th>
<th>Element Name</th>
<th>Scale ID</th>
<th>Data Value</th>
<th>N</th>
<th>Standard Error</th>
<th>Lower CI Bound</th>
<th>Upper CI Bound</th>
<th>Recommend Suppress</th>
<th>Not Relevant</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>43-6011.00</td>
<td>4.A.1.a.1</td>
<td>Getting Information</td>
<td>IM</td>
<td>4.50</td>
<td>46</td>
<td>0.11</td>
<td>4.28</td>
<td>4.72</td>
<td>N</td>
<td>n/a</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.1.a.1</td>
<td>Getting Information</td>
<td>LV</td>
<td>4.33</td>
<td>45</td>
<td>0.34</td>
<td>3.65</td>
<td>5.00</td>
<td>N</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.1.a.2</td>
<td>Monitor Processes, Materials, or Surroundings</td>
<td>IM</td>
<td>3.42</td>
<td>45</td>
<td>0.16</td>
<td>3.10</td>
<td>3.74</td>
<td>N</td>
<td>n/a</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.1.a.2</td>
<td>Monitor Processes, Materials, or Surroundings</td>
<td>LV</td>
<td>3.88</td>
<td>45</td>
<td>0.40</td>
<td>3.07</td>
<td>4.69</td>
<td>N</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.1.b.1</td>
<td>Identifying Objects, Actions, and Events</td>
<td>IM</td>
<td>3.92</td>
<td>46</td>
<td>0.18</td>
<td>3.55</td>
<td>4.28</td>
<td>N</td>
<td>n/a</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.1.b.1</td>
<td>Identifying Objects, Actions, and Events</td>
<td>LV</td>
<td>3.97</td>
<td>46</td>
<td>0.39</td>
<td>3.18</td>
<td>4.76</td>
<td>N</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.1.b.2</td>
<td>Inspecting Equipment, Structures, or Material</td>
<td>IM</td>
<td>2.28</td>
<td>45</td>
<td>0.21</td>
<td>1.86</td>
<td>2.69</td>
<td>N</td>
<td>n/a</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.1.b.2</td>
<td>Inspecting Equipment, Structures, or Material</td>
<td>LV</td>
<td>1.85</td>
<td>46</td>
<td>0.33</td>
<td>1.19</td>
<td>2.51</td>
<td>N</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.1.b.3</td>
<td>Estimating the Quantifiable Characteristics of Products, Events, or Information</td>
<td>IM</td>
<td>2.51</td>
<td>46</td>
<td>0.21</td>
<td>2.08</td>
<td>2.93</td>
<td>N</td>
<td>n/a</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.1.b.3</td>
<td>Estimating the Quantifiable Characteristics of Products, Events, or Information</td>
<td>LV</td>
<td>2.41</td>
<td>46</td>
<td>0.36</td>
<td>1.69</td>
<td>3.13</td>
<td>N</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.2.a.1</td>
<td>Judging the Qualities of Things, Services, or People</td>
<td>IM</td>
<td>2.93</td>
<td>45</td>
<td>0.26</td>
<td>2.40</td>
<td>3.45</td>
<td>N</td>
<td>n/a</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
<tr>
<td>43-6011.00</td>
<td>4.A.2.a.1</td>
<td>Judging the Qualities of Things, Services, or People</td>
<td>LV</td>
<td>3.20</td>
<td>45</td>
<td>0.44</td>
<td>2.31</td>
<td>4.09</td>
<td>N</td>
<td>N</td>
<td>07/2017</td>
<td>Incumbent</td>
</tr>
</tbody>
</table>
IWA Reference

Purpose: Provide each Intermediate Work Activity.

File Name: IWA Reference.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
</tr>
<tr>
<td>IWA ID</td>
<td>Character Varying(20)</td>
<td>Identifies each Intermediate Work Activity</td>
</tr>
<tr>
<td>IWA Title</td>
<td>Character Varying(150)</td>
<td>Intermediate Work Activity statement</td>
</tr>
</tbody>
</table>

This file contains each Intermediate Work Activity and its corresponding O*NET Work Activity element ID. Every IWA is linked to exactly one Work Activity from the O*NET Content Model. IWAs are linked to one or more DWAs; see the DWA Reference file for these links.

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

For more information, see:


File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>19.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - IWA Reference:

<table>
<thead>
<tr>
<th>Element ID</th>
<th>IWA ID</th>
<th>IWA Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.A.1.a.1</td>
<td>4.A.1.a.1.I02</td>
<td>Read documents or materials to inform work processes.</td>
</tr>
<tr>
<td>4.A.4.c.2</td>
<td>4.A.4.c.2.I01</td>
<td>Perform recruiting or hiring activities.</td>
</tr>
</tbody>
</table>
DWA Reference

**Purpose:** Provide each Detailed Work Activity.

**File Name:** DWA Reference.txt

**Structure and Description:**

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
</tr>
<tr>
<td>IWA ID</td>
<td>Character Varying(20)</td>
<td>Identifies each Intermediate Work Activity (see IWA Reference)</td>
</tr>
<tr>
<td>DWA ID</td>
<td>Character Varying(20)</td>
<td>Identifies each Detailed Work Activity</td>
</tr>
<tr>
<td>DWA Title</td>
<td>Character Varying(50)</td>
<td>Detailed Work Activity statement</td>
</tr>
</tbody>
</table>

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. See Content Model Reference and IWA Reference for information about these higher-level elements. 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 Element ID, IWA ID, DWA ID, and DWA Title. The four fields are represented by one row. There are a total of 2,070 rows of data in this file.

For more information, see:

- [Ranking Detailed Work Activities (DWAs) Within O*NET® Occupational Profiles](http://www.onetcenter.org/reports/DWA_Ranking.html)

**File Structure Changes:**

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>19.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

**Data Example - DWA Reference:**

<table>
<thead>
<tr>
<th>Element ID</th>
<th>IWA ID</th>
<th>DWA ID</th>
<th>DWA Title</th>
</tr>
</thead>
</table>
Tasks to DWAs

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

File Name: Tasks to DWAs.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Task ID</td>
<td>Integer(8)</td>
<td>Identifies each task (see Task Statements)</td>
</tr>
<tr>
<td>DWA ID</td>
<td>Character Varying(20)</td>
<td>Identifies each Detailed Work Activity (see DWA Reference)</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
<td>Source of the data</td>
</tr>
</tbody>
</table>

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 ID, Date, and Domain Source. The five fields are represented by one row. There are a total of 22,881 rows of data in this file.

For more information, see:


File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>19.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Tasks to DWAs:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Task ID</th>
<th>DWA ID</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>47-5061.00</td>
<td>21017</td>
<td>4.A.3.a.3.I03.D05</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>47-5061.00</td>
<td>21018</td>
<td>4.A.1.b.2.I07.D01</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>47-5061.00</td>
<td>21019</td>
<td>4.A.1.b.2.I11.D01</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>47-5061.00</td>
<td>21020</td>
<td>4.A.3.a.2.I01.D10</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
<tr>
<td>47-5061.00</td>
<td>21021</td>
<td>4.A.3.a.3.I03.D03</td>
<td>07/2017</td>
<td>Analyst</td>
</tr>
</tbody>
</table>
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:

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

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 325,927 rows of data in this file.

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>Date and Source columns added</td>
</tr>
<tr>
<td>5.1</td>
<td>Columns added for N, Standard Error, Lower CI Bound, Upper CI Bound, Recommend Suppress, and Not Relevant</td>
</tr>
<tr>
<td>6.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
# Data Example - Work Context:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Element ID</th>
<th>Element Name</th>
<th>Scale ID</th>
<th>Category ID</th>
<th>Data Value</th>
<th>N</th>
<th>Standard Error</th>
<th>Lower CI Bound</th>
<th>Upper CI Bound</th>
<th>Recommend Suppress</th>
<th>Not Relevant</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-1022.00</td>
<td>4.C.3.d.8</td>
<td>Duration of Typical Work Week</td>
<td>CT</td>
<td>n/a</td>
<td>2.43</td>
<td>23</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
<tr>
<td>19-1022.00</td>
<td>4.C.3.d.8</td>
<td>Duration of Typical Work Week</td>
<td>CTP</td>
<td>1</td>
<td>0.00</td>
<td>23</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
<tr>
<td>19-1022.00</td>
<td>4.C.3.d.8</td>
<td>Duration of Typical Work Week</td>
<td>CTP</td>
<td>2</td>
<td>56.52</td>
<td>23</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
<tr>
<td>19-1022.00</td>
<td>4.C.3.d.8</td>
<td>Duration of Typical Work Week</td>
<td>CTP</td>
<td>3</td>
<td>43.48</td>
<td>23</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
</tbody>
</table>
Work Context Categories

Purpose: Provide description of Work Context categories.

File Name: Work Context Categories.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
</tr>
<tr>
<td>Element Name</td>
<td>Character Varying(150)</td>
<td>Content Model Element Name (see Content Model Reference)</td>
</tr>
<tr>
<td>Scale ID</td>
<td>Character Varying(3)</td>
<td>Scale ID (see Scales Reference)</td>
</tr>
<tr>
<td>Category</td>
<td>Integer(3)</td>
<td>Category value associated with element</td>
</tr>
<tr>
<td>Category Description</td>
<td>Character Varying(1000)</td>
<td>Detail description of category associated with element</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.0</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>10.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Work Context Categories:

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

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

File Name: Occupation Data.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code</td>
</tr>
<tr>
<td>Title</td>
<td>Character Varying(150)</td>
<td>O*NET-SOC Title</td>
</tr>
<tr>
<td>Description</td>
<td>Character Varying(1000)</td>
<td>O*NET-SOC Description</td>
</tr>
</tbody>
</table>

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 1,110 rows of data in this file.

For more information, see:

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

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
### Data Example - Occupation Data:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-9041.01</td>
<td>Biofuels/Biodiesel Technology and Product Development Managers</td>
<td>Define, plan, or execute biofuels/biodiesel research programs that evaluate alternative feedstock and process technologies with near-term commercial potential.</td>
</tr>
<tr>
<td>17-2072.00</td>
<td>Electronics Engineers, Except Computer</td>
<td>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.</td>
</tr>
<tr>
<td>19-4031.00</td>
<td>Chemical Technicians</td>
<td>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.</td>
</tr>
<tr>
<td>29-1066.00</td>
<td>Psychiatrists</td>
<td>Physicians who diagnose, treat, and help prevent disorders of the mind.</td>
</tr>
<tr>
<td>45-4011.00</td>
<td>Forest and Conservation Workers</td>
<td>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, and tree planters.</td>
</tr>
<tr>
<td>51-8012.00</td>
<td>Power Distributors and Dispatchers</td>
<td>Coordinate, regulate, or distribute electricity or steam.</td>
</tr>
</tbody>
</table>
Alternate Titles

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

File Name: Alternate Titles.txt

Structure and Description:

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

This file contains alternate, or "lay", occupational titles for 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, Alternate Title, Short Title, and Source(s). The four fields are represented by one row. There are a total of 60,234 rows of data in this file.

For more information, see:

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

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>Release Number</td>
<td>Description of Change</td>
</tr>
<tr>
<td>----------------</td>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>20.2 - 21.3</td>
<td>No structure changes</td>
</tr>
<tr>
<td>22.0</td>
<td>increased &quot;Alternate Title&quot; column from 150 to 250 characters</td>
</tr>
<tr>
<td>22.1 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

**Data Example - Alternate Titles:**

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Alternate Title</th>
<th>Short Title</th>
<th>Source(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-1133.00</td>
<td>Certified Novell Engineer (CNE)</td>
<td>CNE</td>
<td>06</td>
</tr>
<tr>
<td>11-3031.02</td>
<td>Bank Advisor</td>
<td>n/a</td>
<td>04,06</td>
</tr>
<tr>
<td>29-2099.00</td>
<td>Sleep Technician</td>
<td>n/a</td>
<td>09</td>
</tr>
</tbody>
</table>
Sample of Reported Titles

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

File Name: Sample of Reported Titles.txt

Structure and Description:

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

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 9,218 rows of data in this file.

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>20.2 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Sample of Reported Titles:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Reported Job Title</th>
<th>Shown in My Next Move</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-2071.00</td>
<td>Circuits Engineer</td>
<td>N</td>
</tr>
<tr>
<td>17-2071.00</td>
<td>Design Engineer</td>
<td>Y</td>
</tr>
<tr>
<td>17-2071.00</td>
<td>Electrical Controls Engineer</td>
<td>N</td>
</tr>
<tr>
<td>17-2071.00</td>
<td>Electrical Design Engineer</td>
<td>N</td>
</tr>
<tr>
<td>17-2071.00</td>
<td>Electrical Engineer</td>
<td>Y</td>
</tr>
<tr>
<td>17-2071.00</td>
<td>Electrical Project Engineer</td>
<td>N</td>
</tr>
<tr>
<td>17-2071.00</td>
<td>Instrumentation and Electrical Reliability Engineer (I&amp;E Reliability Engineer)</td>
<td>N</td>
</tr>
<tr>
<td>17-2071.00</td>
<td>Power Systems Engineer</td>
<td>N</td>
</tr>
</tbody>
</table>
Related Occupations
Career Changers Matrix

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

File Name: Career Changers Matrix.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Related O*NET-SOC Code</td>
<td>Character(10)</td>
<td>Related O*NET-SOC code mapping (see Occupation Data)</td>
</tr>
<tr>
<td>Index</td>
<td>Integer(3)</td>
<td>Order of related code mappings</td>
</tr>
</tbody>
</table>

For each O*NET-SOC code included, up to 10 related O*NET-SOC codes are listed. The related occupations in this file make use of similar skills and experience; workers from one occupation may transfer to a job in a related occupation with minimal additional preparation.

The file is displayed in three tab delimited fields with the columns named O*NET-SOC Code, Related O*NET-SOC Code, and Index. The three fields are represented by one row. There are a total of 8,348 rows of data in this file.

For more information, see:

- The Development and Evaluation of a New O*NET Related Occupations Matrix [http://www.onetcenter.org/reports/Related.html]

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>20.2 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Career Changers Matrix:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Related O*NET-SOC Code</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-1011.00</td>
<td>11-9111.00</td>
<td>1</td>
</tr>
<tr>
<td>11-1011.00</td>
<td>11-2022.00</td>
<td>2</td>
</tr>
<tr>
<td>11-1011.00</td>
<td>11-3031.01</td>
<td>3</td>
</tr>
<tr>
<td>11-1011.00</td>
<td>23-1011.00</td>
<td>4</td>
</tr>
</tbody>
</table>
Career Starters Matrix

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

File Name: Career Starters Matrix.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Related O*NET-SOC Code</td>
<td>Character(10)</td>
<td>Related O*NET-SOC code mapping (see Occupation Data)</td>
</tr>
<tr>
<td>Index</td>
<td>Integer(3)</td>
<td>Order of related code mappings</td>
</tr>
</tbody>
</table>

For each O*NET-SOC code included, 10 related O*NET-SOC codes are listed. The related occupations in this file have similar general capabilities and interests; career explorers interested in the reference occupation may also be interested in the related occupations.

The file is displayed in three tab delimited fields with the columns named O*NET-SOC Code, Related O*NET-SOC Code, and Index. The three fields are represented by one row. There are a total of 8,580 rows of data in this file.

For more information, see:

- The Development and Evaluation of a New O*NET Related Occupations Matrix [http://www.onetcenter.org/reports/Related.html]

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>20.2 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Career Starters Matrix:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Related O*NET-SOC Code</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-1011.00</td>
<td>11-2021.00</td>
<td>1</td>
</tr>
<tr>
<td>11-1011.00</td>
<td>13-1011.00</td>
<td>2</td>
</tr>
<tr>
<td>11-1011.00</td>
<td>11-9111.00</td>
<td>3</td>
</tr>
<tr>
<td>11-1011.00</td>
<td>11-9033.00</td>
<td>4</td>
</tr>
</tbody>
</table>
Green
Green Occupations

Purpose: Provide a comprehensive list of all Green occupations.

File Name: Green Occupations.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Green Occupational Category</td>
<td>Character Varying(40)</td>
<td>Green Occupational Category</td>
</tr>
</tbody>
</table>

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

- **Green New & Emerging** — The impact of green economy activities and technologies is sufficient to create the need for unique work and worker requirements, which results in the generation of new occupations.

- **Green Enhanced Skills** — The impact of green economy activities and technologies results in a significant change to the work and worker requirements of an existing O*NET-SOC occupation.

- **Green Increased Demand** — The impact of green economy activities and technologies results in an increase in employment demand, but does not entail significant changes in the work and worker requirements of the occupation.

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

For more information, see:

- Greening of the World of Work: Implications for O*NET-SOC and New and Emerging Occupations [http://www.onetcenter.org/reports/Green.html]

- Greening of the World of Work: O*NET Project's Book of References [http://www.onetcenter.org/reports/GreenRef.html]

- Greening of the World of Work: Revisiting Occupational Consequences [http://www.onetcenter.org/reports/Green2.html]

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
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</thead>
<tbody>
<tr>
<td>16.0</td>
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</tr>
<tr>
<td>17.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
Data Example - Green Occupations:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Green Occupational Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-3023.03</td>
<td>Green Enhanced Skills</td>
</tr>
<tr>
<td>17-3024.00</td>
<td>Green Enhanced Skills</td>
</tr>
<tr>
<td>17-3024.01</td>
<td>Green New &amp; Emerging</td>
</tr>
<tr>
<td>17-3025.00</td>
<td>Green Enhanced Skills</td>
</tr>
<tr>
<td>17-3026.00</td>
<td>Green Enhanced Skills</td>
</tr>
</tbody>
</table>
Green Task Statements

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

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

**Structure and Description:**

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see <a href="http://www.onetcenter.org/reports/GreenTask.html">Occupation Data</a>)</td>
</tr>
<tr>
<td>Task ID</td>
<td>Integer(8)</td>
<td>Identifies each task (see <a href="http://www.onetcenter.org/reports/GreenTask.html">Task Statements</a>)</td>
</tr>
<tr>
<td>Task</td>
<td>Character Varying(1000)</td>
<td>Task statement associated with an occupation</td>
</tr>
<tr>
<td>Green Task Type</td>
<td>Character Varying(40)</td>
<td>Green Task Type</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
<td>Source of the data</td>
</tr>
</tbody>
</table>

This file contains the green tasks associated with O*NET-SOC occupations.

The file is displayed in six tab delimited fields with the columns named O*NET-SOC Code, Task ID, Task, Green Task Type, Date, and Domain Source. The six fields are represented by one row. There are a total of 1,386 rows of data in this file.

For more information, see:

- [O*NET Green Task Development Project](http://www.onetcenter.org/reports/GreenTask.html)

**File Structure Changes:**

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.0</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>17.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
### Data Example - Green Task Statements:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Task ID</th>
<th>Task</th>
<th>Green Task Type</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-3029.09</td>
<td>18249</td>
<td>Adhere to all applicable regulations, policies, and procedures for health, safety, and environmental compliance.</td>
<td>Existing Green Task</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
<tr>
<td>17-3029.09</td>
<td>19738</td>
<td>Conduct environmental safety inspections in accordance with standard protocols to ensure that production activities comply with environmental regulations or standards.</td>
<td>New Green Task</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
<tr>
<td>17-3029.09</td>
<td>19740</td>
<td>Transfer hazardous or nonhazardous waste materials to collection areas for disposal, recycling, or reuse.</td>
<td>New Green Task</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
<tr>
<td>17-3029.09</td>
<td>19737</td>
<td>Clean scrap materials for recycling or reuse, such as preparing aluminum scrap for cold-bonding processes or preparing paper for pulping or ink removal processes.</td>
<td>New Green Task</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
<tr>
<td>17-3029.09</td>
<td>20973</td>
<td>Collect hazardous or nonhazardous waste or scrap materials in correctly labeled barrels or other containers.</td>
<td>Existing Green Task</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
<tr>
<td>17-3029.09</td>
<td>19739</td>
<td>Separate scrap or waste materials for recycling, reuse, or environmentally sound disposal.</td>
<td>New Green Task</td>
<td>07/2017</td>
<td>Occupational Expert</td>
</tr>
<tr>
<td>17-3029.10</td>
<td>16746</td>
<td>Assemble fuel cells or fuel cell stacks according to mechanical or electrical assembly documents or schematics.</td>
<td>Existing Green Task</td>
<td>07/2011</td>
<td>Analyst</td>
</tr>
</tbody>
</table>
Tasks to Green DWAs

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

**File Name:** Tasks to Green DWAs.txt

**Structure and Description:**

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Task ID</td>
<td>Integer(8)</td>
<td>Identifies each task (see Task Statements)</td>
</tr>
<tr>
<td>Green DWA ID</td>
<td>Character Varying(20)</td>
<td>Identifies each Green Detailed Work Activity (see Green DWA Reference)</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
<tr>
<td>Domain Source</td>
<td>Character Varying(30)</td>
<td>Source of the data</td>
</tr>
</tbody>
</table>

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

The file is displayed in five tab delimited fields with the columns named O*NET-SOC Code, Task ID, Green DWA ID, Date, and Domain Source. The five fields are represented by one row. There are a total of 1,311 rows of data in this file.

For more information, see:


**File Structure Changes:**

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>19.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

**Data Example - Tasks to Green DWAs:**

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Task ID</th>
<th>Green DWA ID</th>
<th>Date</th>
<th>Domain Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-3029.09</td>
<td>18249</td>
<td>4.A.2.b.6.G01</td>
<td>03/2014</td>
<td>Analyst</td>
</tr>
<tr>
<td>17-3029.09</td>
<td>19737</td>
<td>4.A.3.a.2.G07</td>
<td>03/2014</td>
<td>Analyst</td>
</tr>
<tr>
<td>17-3029.09</td>
<td>19738</td>
<td>4.A.2.a.3.G03</td>
<td>03/2014</td>
<td>Analyst</td>
</tr>
</tbody>
</table>
Green DWA Reference

Purpose: Provide each Green Detailed Work Activity.

File Name: Green DWA Reference.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
</tr>
<tr>
<td>Green DWA ID</td>
<td>Character Varying(20)</td>
<td>Identifies each Green Detailed Work Activity</td>
</tr>
<tr>
<td>Green DWA Title</td>
<td>Character Varying(150)</td>
<td>Green Detailed Work Activity statement</td>
</tr>
</tbody>
</table>

This file contains each Green Detailed Work Activity and the element ID of its corresponding generalized Work Activity. Each Green DWA is linked to exactly one Work Activity from the O*NET Content Model. Each Green DWA is linked to multiple task statements; see Tasks to Green DWAs for these links.

The file is displayed in three tab delimited fields with the columns named Element ID, Green DWA ID, and Green DWA Title. The three fields are represented by one row. There are a total of 174 rows of data in this file.

For more information, see:


File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>19.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Green DWA Reference:

<table>
<thead>
<tr>
<th>Element ID</th>
<th>Green DWA ID</th>
<th>Green DWA Title</th>
</tr>
</thead>
</table>
Data Collection
Content Model Reference

Purpose: Provide O*NET Content Model elements.

File Name: Content Model Reference.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position</td>
</tr>
<tr>
<td>Element Name</td>
<td>Character Varying(150)</td>
<td>Content Model Element Name</td>
</tr>
<tr>
<td>Description</td>
<td>Character Varying(1500)</td>
<td>Content Model Element Description</td>
</tr>
</tbody>
</table>

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 583 rows of data in this file.

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Content Model Reference:

<table>
<thead>
<tr>
<th>Element ID</th>
<th>Element Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Worker Characteristics</td>
<td>Worker Characteristics</td>
</tr>
<tr>
<td>1.A</td>
<td>Abilities</td>
<td>Enduring attributes of the individual that influence performance</td>
</tr>
<tr>
<td>1.A.1</td>
<td>Cognitive Abilities</td>
<td>Abilities that influence the acquisition and application of knowledge in problem solving</td>
</tr>
<tr>
<td>1.A.1.a</td>
<td>Verbal Abilities</td>
<td>Abilities that influence the acquisition and application of verbal information in problem solving</td>
</tr>
<tr>
<td>1.A.1.a.1</td>
<td>Oral Comprehension</td>
<td>The ability to listen to and understand information and ideas presented through spoken words and sentences.</td>
</tr>
</tbody>
</table>
### 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:**

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>O*NET-SOC Code</td>
<td>Character(10)</td>
<td>O*NET-SOC Code (see Occupation Data)</td>
</tr>
<tr>
<td>Item</td>
<td>Character Varying(150)</td>
<td>Occupation level statistics</td>
</tr>
<tr>
<td>Response</td>
<td>Character Varying(75)</td>
<td>Type of response</td>
</tr>
<tr>
<td>N</td>
<td>Integer(4)</td>
<td>Sample size for occupation</td>
</tr>
<tr>
<td>Percent</td>
<td>Float(4,1)</td>
<td>Percentage of responses</td>
</tr>
<tr>
<td>Date</td>
<td>Character(7)</td>
<td>Date when data was updated</td>
</tr>
</tbody>
</table>

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 33,924 rows of data in this file.

### File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>6.0 - 20.3</td>
<td>No structure changes</td>
</tr>
<tr>
<td>21.0</td>
<td>Items added and renamed; see Appendix 3, Key to Occupation Level Metadata</td>
</tr>
<tr>
<td>21.1 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
## Data Example - Occupation Level Metadata:

<table>
<thead>
<tr>
<th>O*NET-SOC Code</th>
<th>Item</th>
<th>Response</th>
<th>N</th>
<th>Percent</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>51-3022.00</td>
<td>Data Collection Mode</td>
<td>Paper</td>
<td>58</td>
<td>86.2</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Data Collection Mode</td>
<td>Web</td>
<td>58</td>
<td>13.8</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Employee Completeness Rate</td>
<td>n/a</td>
<td>n/a</td>
<td>76.3</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Employee Response Rate</td>
<td>n/a</td>
<td>n/a</td>
<td>45.2</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Establishment Eligibility Rate</td>
<td>n/a</td>
<td>n/a</td>
<td>90.2</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Establishment Response Rate</td>
<td>n/a</td>
<td>n/a</td>
<td>50.5</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>How Long at Current Job</td>
<td>1-5 Years</td>
<td>58</td>
<td>25.9</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>How Long at Current Job</td>
<td>10 Years or More</td>
<td>58</td>
<td>37.9</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>How Long at Current Job</td>
<td>6-9 Years</td>
<td>58</td>
<td>24.1</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>How Long at Current Job</td>
<td>&lt;1 Year</td>
<td>58</td>
<td>10.3</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>How Long at Current Job</td>
<td>Missing</td>
<td>58</td>
<td>1.7</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Industry Division (Major Group Codes (SIC) within Division in parentheses)</td>
<td>Agriculture, Forestry, Fishing (01-09)</td>
<td>58</td>
<td>0.0</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Industry Division (Major Group Codes (SIC) within Division in parentheses)</td>
<td>Construction (15-17)</td>
<td>58</td>
<td>0.0</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Industry Division (Major Group Codes (SIC) within Division in parentheses)</td>
<td>Financial, Insurance and Real Estate (60-67)</td>
<td>58</td>
<td>0.0</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Industry Division (Major Group Codes (SIC) within Division in parentheses)</td>
<td>Manufacturing (20-39)</td>
<td>58</td>
<td>56.9</td>
<td>07/2017</td>
</tr>
<tr>
<td>51-3022.00</td>
<td>Industry Division (Major Group Codes (SIC) within Division in parentheses)</td>
<td>Mining (10-14)</td>
<td>58</td>
<td>0.0</td>
<td>07/2017</td>
</tr>
</tbody>
</table>
Level Scale Anchors

Purpose: Provide descriptions of O*NET Level Scale Anchors.

File Name: Level Scale Anchors.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
</tr>
<tr>
<td>Element Name</td>
<td>Character Varying(150)</td>
<td>Content Model Element Name (see Content Model Reference)</td>
</tr>
<tr>
<td>Scale ID</td>
<td>Character Varying(3)</td>
<td>Scale ID (see Scales Reference)</td>
</tr>
<tr>
<td>Anchor Value</td>
<td>Integer(3)</td>
<td>Anchor value associated with element</td>
</tr>
<tr>
<td>Anchor Description</td>
<td>Character Varying(1000)</td>
<td>Detail description of anchor associated with element</td>
</tr>
</tbody>
</table>

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]).

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:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>6.0</td>
<td>Added Scale ID column</td>
</tr>
<tr>
<td>7.0 - 8.0</td>
<td>No structure changes</td>
</tr>
<tr>
<td>9.0</td>
<td>The data for Education, Training, and Experience and Work Context were moved into their own files for data clarity purposes.</td>
</tr>
<tr>
<td>10.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>
### Data Example - Level Scale Anchors:

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

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

File Name: Scales Reference.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale ID</td>
<td>Character Varying(3)</td>
<td>Scale ID</td>
</tr>
<tr>
<td>Scale Name</td>
<td>Character Varying(50)</td>
<td>Scale Name</td>
</tr>
<tr>
<td>Minimum</td>
<td>Integer(1)</td>
<td>Scale Minimum</td>
</tr>
<tr>
<td>Maximum</td>
<td>Integer(3)</td>
<td>Scale Maximum</td>
</tr>
</tbody>
</table>

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 29 rows of data in this file.

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Scales Reference:

<table>
<thead>
<tr>
<th>Scale ID</th>
<th>Scale Name</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT</td>
<td>Context</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>CTP</td>
<td>Context (Categories 1-3)</td>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>CX</td>
<td>Context</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>CXP</td>
<td>Context (Categories 1-5)</td>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>IM</td>
<td>Importance</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>LV</td>
<td>Level</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>OJ</td>
<td>On-The-Job Training (Categories 1-9)</td>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>PT</td>
<td>On-Site Or In-Plant Training (Categories 1-9)</td>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>RL</td>
<td>Required Level Of Education (Categories 1-12)</td>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>RW</td>
<td>Related Work Experience (Categories 1-11)</td>
<td>0</td>
<td>100</td>
</tr>
</tbody>
</table>
Survey Booklet Locations

Purpose: Provide survey item numbers for O*NET Content Model elements.

File Name: Survey Booklet Locations.txt

Structure and Description:

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Column Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element ID</td>
<td>Character Varying(20)</td>
<td>Content Model Outline Position (see Content Model Reference)</td>
</tr>
<tr>
<td>Element Name</td>
<td>Character Varying(150)</td>
<td>Content Model Element Name (see Content Model Reference)</td>
</tr>
<tr>
<td>Survey Item Number</td>
<td>Character Varying(4)</td>
<td>Survey Booklet Location Number</td>
</tr>
<tr>
<td>Scale ID</td>
<td>Character Varying(3)</td>
<td>Scale ID (see Scales Reference)</td>
</tr>
</tbody>
</table>

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]. 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 227 rows of data in this file.

File Structure Changes:

<table>
<thead>
<tr>
<th>Release Number</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>Added as a new file</td>
</tr>
<tr>
<td>5.1 - 12.0</td>
<td>No structure changes</td>
</tr>
<tr>
<td>13.0</td>
<td>Added Scale ID column</td>
</tr>
<tr>
<td>14.0 - 22.3</td>
<td>No structure changes</td>
</tr>
</tbody>
</table>

Data Example - Survey Booklet Locations:

<table>
<thead>
<tr>
<th>Element ID</th>
<th>Element Name</th>
<th>Survey Item Number</th>
<th>Scale ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.C.1.a</td>
<td>Achievement/Effort</td>
<td>KN40</td>
<td>IM</td>
</tr>
<tr>
<td>1.C.1.b</td>
<td>Persistence</td>
<td>KN41</td>
<td>IM</td>
</tr>
<tr>
<td>1.C.1.c</td>
<td>Initiative</td>
<td>KN42</td>
<td>IM</td>
</tr>
<tr>
<td>1.C.2.b</td>
<td>Leadership</td>
<td>KN43</td>
<td>IM</td>
</tr>
<tr>
<td>1.C.3.a</td>
<td>Cooperation</td>
<td>KN44</td>
<td>IM</td>
</tr>
<tr>
<td>1.C.3.b</td>
<td>Concern for Others</td>
<td>KN45</td>
<td>IM</td>
</tr>
</tbody>
</table>
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

Release 22.3 includes 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](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 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
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](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.
### O*NET Database Content Changes 16.0 - 22.3

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#### Notes
- U: Updated
- N: New
- C: Content Model Reference

## O*NET Database Content Changes 5.0 - 15.1

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