



O*NET® 30.0 Database

The O*NET database contains a rich set of variables that describe work and worker characteristics, including skill requirements. Developers and other customers are encouraged to incorporate the O*NET database within their products, services, and research. This section contains an overview of the most recent database and a variety of database download options, as well as format-specific data dictionaries.

[Overview](#)[All Files](#)[Individual Files](#)[Web Services](#)[Usage License](#)

The O*NET 30.0 Database is available under a Creative Commons license. See the [Database license page](#) for more information.

- [Knowledge, Skills, Abilities](#)
- [Interests](#)
- [Tasks](#)
- [Work Activities](#)
- [Occupation Titles](#)
- [Data Collection](#)
- [Education, Experience, Training](#)
- [Work Values and Work Styles](#)
- [Technology Skills & Tools](#)
- [Work Context](#)
- [Related Occupations and Related Domains](#)
- [Competency Frameworks](#)

Knowledge, Skills, Abilities

Knowledge updated in 30.0

This file contains the Content Model Knowledge data associated with each O*NET-SOC occupation. [Read more...](#)

[Excel](#) [Text](#) [MySQL](#) [SQL Server](#) [Oracle](#)

Skills updated in 30.0

This file contains the Content Model Skill data associated with each O*NET-SOC occupation. [Read more...](#)

[Excel](#) [Text](#) [MySQL](#) [SQL Server](#) [Oracle](#)

Abilities updated in 30.0

This file contains the Content Model Ability data associated with each O*NET-SOC occupation. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
--	---	--	---	---

Education, Experience, Training

Education, Training, and Experience updated in 30.0

This file contains the percent frequency data associated with Education, Training, and Experience Content Model elements. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Education, Training, and Experience Categories

This file contains the categories associated with the Education, Training, and Experience content area. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Job Zones updated in 30.0

This file contains each O*NET-SOC code and its corresponding Job Zone number. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Job Zone Reference

This file describes the five O*NET Job Zones, which are groups of occupations that need the same level of experience, education, and training. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Interests

Interests

This file contains the general occupational interest (RIASEC) high-point codes and numeric profile data for each O*NET-SOC occupation. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

RIASEC Keywords






This file contains action and object keywords for each general occupational interest. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Basic Interests to RIASEC

This file contains linkages between each basic occupational interest to relevant general occupational interests.





[Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Interests Illustrative Activities






This file contains illustrative work activities related to the general and basic occupational interests. [Read](#)

[more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Interests Illustrative Occupations

This file contains illustrative occupations linked to the general and basic occupational interests. [Read more...](#)






 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Work Values and Work Styles

Work Values

This file contains the Content Model Work Values data associated with each O*NET- SOC occupation. [Read](#)






[more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Work Styles updated in 30.0

This file contains the Content Model Work Styles data associated with each O*NET-SOC occupation. [Read](#)






[more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Tasks






Task Statements updated in 30.0

This file contains the tasks associated with each O*NET-SOC occupation. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






Task Ratings updated in 30.0

This file contains the task ratings associated with each O*NET-SOC occupation. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






Task Categories

This file contains the categories associated with the Task content area. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Emerging Tasks updated in 30.0




This file contains new and revised task statements proposed for future data collection. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Technology Skills & Tools






Technology Skills

This file contains the Technology Skills examples, including hot and in-demand technologies, associated with O*NET-SOC occupations. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--





Tools Used

This file contains the Tools Used examples associated with O*NET-SOC occupations. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

UNSPSC Reference



This file contains a listing of commodities in the United Nations Standard Products and Services Code (UNSPSC), version 23.0701. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Work Activities






Work Activities updated in 30.0

This file contains the Content Model Work Activity data associated with each O*NET-SOC occupation. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






IWA Reference

This file contains each Intermediate Work Activity and its corresponding O*NET Work Activity element ID. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






DWA Reference updated in 30.0

This file contains each Detailed Work Activity and its corresponding GWA and IWA identifiers. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Tasks to DWAs updated in 30.0






This file maps each Detailed Work Activity (DWA) to the task statements, and consequently to the O*NET-SOC occupations, requiring that activity. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Work Context






Work Context updated in 30.0

This file contains the Content Model Work Context data associated with each O*NET-SOC occupation. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Work Context Categories






This file contains the categories associated with the Work Context content area. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Occupation Titles



Occupation Data

This file contains each O*NET-SOC code, occupational title, and definition/description. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






Alternate Titles updated in 30.0

This file contains job or alternate "lay" titles linked to occupations in the O*NET-SOC classification system. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Sample of Reported Titles updated in 30.0

This file contains job titles frequently reported by incumbents and occupational experts on data collection surveys. [Read more...](#)






 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Related Occupations and Related Domains

Related Occupations






For each O*NET-SOC code included, 10 primary and 10 supplemental related O*NET-SOC codes are listed.

[Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






Abilities to Work Activities

This file contains linkages between abilities and relevant work activities. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






Abilities to Work Context

This file contains linkages between abilities and relevant work context. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






Skills to Work Activities

This file contains linkages between skills and relevant work activities. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Skills to Work Context






This file contains linkages between skills and relevant work context. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Data Collection





Content Model Reference

This file contains the Content Model elements and descriptions. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--





Occupation Level Metadata updated in 30.0

This file contains occupational level metadata variables associated with data collection statistics. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






Level Scale Anchors

This file contains the scale anchors associated with the following four content areas – 1) Abilities, 2) Knowledge, 3) Skills, and 4) Work Activities. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--






Scales Reference

This file contains the Scale information by which the raw values are measured. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Survey Booklet Locations

This file contains the Content Model elements that have corresponding survey item numbers in the Survey Booklet. [Read more...](#)

 Excel	 Text	 MySQL	 SQL Server	 Oracle
---	--	---	--	--

Competency Frameworks

The [O*NET Content Model](#) includes worker- and job-oriented hierarchical taxonomies that can effectively serve as frameworks for organizing workforce competencies, credentials, and other work-relevant information. These frameworks are available in Excel format and also as machine-readable CTDL JSON-LD files, described using the Credential Transparency Description Language (CTDL) Achievement Standards Network (ASN) [schema](#) [↗](#) developed by [Credential Engine](#) [↗](#). The JSON-LD files use the CTDL ASN [CompetencyFramework](#) [↗](#) and [Competency](#) [↗](#) classes.

Current and past O*NET-SOC occupations are also published in CTDL JSON-LD format. See [Machine-Readable Occupation Taxonomies](#).

Knowledge Competency Framework

This file contains the hierarchy of Knowledge competencies from the O*NET Content Model.

Includes the framework from the [Content Model Reference](#) file and data from the [Knowledge](#) file.

 JSON-LD	 Excel
---	---

Basic Skills Competency Framework

This file contains the hierarchy of Basic Skills competencies from the O*NET Content Model.

Includes the framework from the [Content Model Reference](#) file and data from the [Skills](#) file.

 JSON-LD	 Excel
---	---

Cross-Functional Skills Competency Framework

This file contains the hierarchy of Cross-Functional Skills competencies from the O*NET Content Model.

Includes the framework from the [Content Model Reference](#) file and data from the [Skills](#) file.

 [JSON-LD](#)  [Excel](#)

Abilities Competency Framework

This file contains the hierarchy of Abilities competencies from the O*NET Content Model.

Includes the framework from the [Content Model Reference](#) file and data from the [Abilities](#) file.

 [JSON-LD](#)  [Excel](#)

Technology Skills Competency Framework

This file contains Technology Skills associated with O*NET-SOC occupations, organized by the United Nations Standard Products and Services Code (UNSPSC).

Includes the framework from the [UNSPSC Reference](#) file and data from the [Technology Skills](#) file.

 [JSON-LD](#)  [Excel](#)

Work Activities Competency Framework

This file contains the hierarchy of Work Activities competencies, including generalized, intermediate, and detailed work activities. Linked occupation-specific tasks from across occupations are provided as illustrative or “task examples” related to the activities.

Includes the framework from the [Content Model Reference](#), [IWA Reference](#), and [DWA Reference](#) files and data from the [Work Activities](#) and [Tasks to DWAs](#) files.

 [JSON-LD](#)  [Excel](#)