

Item Limits

The WRQ allows an occupational specialist to set statistical filters or “item limits” on job elements that reflect disability or functional limitations. Setting item limits constrains the job-matching algorithm to segregate jobs that have PAQ ratings in excess of item limit values to one part of the report, and jobs that have no PAQ ratings in excess of limit values to another part of that report.

To cite a case example: an Accounting Clerk had a permanent low back impairment that significantly reduced her sitting tolerance. She disliked her accounting job, so it did not make sense to pursue an ergonomic solution such as a sit-stand desk. She needed an occupation that made use of her transferrable skills and that required less sitting; say only half as much sitting, as the Accounting Clerk’s job.

The screenshot shows the 'Worker Rehabilitation Questionnaire' interface. At the top, it says 'You are currently logged in as: David Robinson' with links for 'Account Settings', 'Start', and 'Exit'. Below this is a navigation bar with '1 Choose an Evaluation Method' and several right-pointing chevrons. The main content area is titled 'Choose an evaluation method' and lists four options, each with a right-pointing chevron icon:

- [Open an existing case](#)
- [Examine or print PAQ/WRQ items](#)
- [Examine PAQ ratings for one job.](#) *Setting item limits on a job or setting up or opening a case is optional.*
- [Generate a list of jobs that are potentially appropriate for an individual with functional limitations.](#) *Requires setting up or opening a case*

The first step might be to check the existence of the Accounting Clerk job in the PAQ database. Since Accounting Clerk is a common job, the odds are high that the job is in the database. The next step is to check the sitting requirements on that job. Click on the third choice in the **Choose an evaluation method** screen above, which points to the **Examine PAQ ratings for one job**, screen below that offers to list job titles in the PAQ database that begin with one of those letters.

Worker Rehabilitation Questionnaire
You are currently logged in as: David Robinson [Account Settings](#) [Start](#) [Exit](#)

1 [Choose an Evaluation Method](#) > 2 [View Ratings for One Job](#) > > >

Examine ratings for one job

List all jobs starting with letter:

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Search for a job:

Enter all or part of a job title or DOT code. After you press the "Find Jobs" button you will be shown a list of all jobs in the database that match your search.

You can narrow your search by being more specific (e.g. search for "Sales Engineer, Aeronautical Products"). Or, you can broaden your search by being less specific (e.g. search for "sales").

Find Jobs

Sometimes it is more convenient to enter the first few letters of the job title in the data blank (especially when a long list of jobs begin with a particular letter, "S," for example). In this case, we clicked "A" to open the **Examine ratings for one job** screen that lists jobs starting with "A" below (and that shows only a few of the "A" jobs listed):

Worker Rehabilitation Questionnaire
You are currently logged in as: David Robinson [Account Settings](#) [Start](#) [Exit](#)

1 [Choose an Evaluation Method](#) > 2 [View Ratings for One Job](#) > > >

Examine ratings for one job

List all jobs starting with letter:

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Select a job from the following list to view its ratings:

DOT Number	Job Title
164.167-010	Account Executive
210.367-010	Account-Information Clerk
160.162-018	Accountant
160.162-022	Accountant, Budget
160.162-026	Accountant, Cost
160.167-022	Accountant, Property
160.167-026	Accountant, Systems
160.162-010	Accountant, Tax
216.482-010	Accounting Clerk
214.462-010	Accounts-Adjustable Clerk
100.267-010	Acquisitions Librarian

Clicking the hotlink to Accounting Clerk points to PAQ ratings for that job below:

Worker Rehabilitation Questionnaire
You are currently logged in as: David Robinson [Account Settings](#) [Start](#) [Exit](#)

1 [Choose an Evaluation Method](#) > 2 [View Ratings for One Job](#) > 3 [Set Item Limits for This Job?](#) >

Examine ratings for Accounting Clerk (216.482-010)

Job Title: Accounting Clerk
DOT Number: 216.482-010
PAQ Number: 002775

Item Number	Item	Rating
1	Reading words	2.3
2	Using numbers	3.4
3	Using graphics	0.4
4	Using patterns	0
5	Using information displays	1
6	Using measuring devices	0.1
7	Watching machines in use	0.5
8	Watching things you are working with	0.4
9	Watching features of nature	0
10	Inspecting constructed things	0
11	Watching people or animals	0.4
12	Watching events around you	0.3
13	Viewing artistic work	0
14	Listening to speech	2.4
15	Listening to other sounds	0.5

Scrolling down the **Examine ratings for Accounting Clerk (216.482-010)** page above to Item #108 Sitting shows a PAQ rating of 3.7 on this job.

103	Powered water vehicles	0
104	Air or space vehicles	0
105	Mobile equipment operated by human power	0.1
106	Operating equipment	0
107	Remote-controlled equipment	0
108	Sitting	3.7 ←
109	Standing	0.9
110	Walking/running	1.2
111	Climbing	0

Check the definition of Sitting to see how much a PAQ rating of 3.7 involves. The third hotlink in the navigation bar illustrated in the second screen above blinks **Set Item Limits for This Job?**, so click that when it blinks on and it points to the **Summary of Ratings and Item Limits** screen below:

Worker Rehabilitation Questionnaire

You are currently logged in as: David Robinson [Account Settings](#) [Sign Out](#)

1 [Choose an Evaluation Method](#)
2 [Setup / Open Case](#)
3 [Select Database](#)
4 [Rate Capabilities and Tolerances](#)
5 [Ratings Summary](#)
6 [Run Job Matching Analysis and Generate Reports](#)

Summary of Ratings and Item Limits

Setting Ratings and Limits from job:

Job Title: Accounting Clerk
DOT Number: 216.482-010
PAQ Number: 002775

108 (number)

Item #	Description	Rating	Limit
1	Reading words	2.3	
2	Using numbers	3.4	
3	Using graphics	0.4	
4	Using patterns	0	
5	Using information displays	1	
6	Using measuring devices	0.1	
7	Watching machines in use	0.5	
8	Watching things you are working with	0.4	
9	Watching features of nature	0	
10	Inspecting constructed things	0	
11	Watching people or animals	0.4	
12	Watching events around you	0.3	
13	Viewing artistic work	0	
14	Listening to speech	2.4	
15	Listening to other sounds	0.5	
16	Touching	0.3	
17	Smelling	0	
18	Tasting	0	
19	Using far vision	0.3	

[Definition of Item Limits](#)

[Item Limits Decision Rule](#)



[Review the Last Selected Item](#)



[Save All Changes](#)



[Print Ratings and Item Limits](#)



[Show tip about setting an item limit on education](#)

Just above Item #1 Reading words in the screen above, we entered 108 in the box to the left of the **Go To Item** button and clicked that button, which pointed to item 108 below:

101	Highway or rail vehicles	0	
102	Powered mobile equipment	0	
103	Powered water vehicles	0	
104	Air or space vehicles	0	
105	Mobile equipment operated by human power	0.1	
106	Operating equipment	0	
107	Remote-controlled equipment	0	
108	Sitting	3.7	
109	Standing	0.9	
110	Walking/running	1.2	
111	Climbing	0	
112	Kneeling or stooping	0.2	
113	Working indoors in high temperatures	0	
114	Working indoors in low temperatures	0	
115	Working outdoors	0	
116	Working in impure air	0	
117	Working with vibrating equipment	0	
118	Working under poor lighting	0	



Notice that all the job elements are hotlinks. Clicking on the Sitting hotlink points to that item's definition below:

Worker Rehabilitation Questionnaire

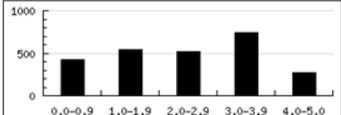
You are currently logged in as David Robinson [Account Settings](#) [Sign Out](#)

1 [Choose an Evaluation Method](#)
2 [Setup / Open Case](#)
3 [Select Database](#)
4 [Rate Capabilities and Tolerances](#)
5 [Ratings Summary](#)
6 [Run Job Matching Analysis and Generate Reports](#)

Item #108: Sitting

This item reflects time spent at a desk, workstation (e.g., electronics assembly line, data entry station), and other seated activities. Many office workers will receive very high ratings (4 or even 5) on this item.

Distribution of the 2,491 jobs in the full WRQ job database:



Median 2.2

[How the Median can be used to anchor item ratings](#)

Examples of jobs in the PAQ database that are rated at each rating scale point:

Level	Job Title
0.0 - 0.9	(None)
1.0 - 1.9	Sheet Metal Worker; Automobile Mechanic (Less than one hour)
2.0 - 2.9	Refinery Operator; Construction Inspector (One hour to two and one half hours)
3.0 - 3.9	Electronics Technician; Inventory Clerk; Librarian; Control Panel Operator (Two and one half hours to five hours)
4.0 - 4.9	Claim Examiner; Key Entry Operator (More than five hours)
5.0	Telephone Solicitor (Almost continually)

To what extent is this individual capable or tolerant of this item?

Rate this Item on a scale of 0.0 (not capable or not tolerant) to 5.0 (highly capable or highly tolerant). [Instructions for Rating Items](#)

Limit this Item . [Definition of Item Limits](#) [Item Limits Decision Rule](#)

Previous Item (107)
Next Item (109)
Go to item:

Pro

[Save Evaluation](#)
[Close Evaluation](#)
[Print](#)
[Continue \(Ratings Summary\) ▶](#)

Recalling that the PAQ rating for Item #108 Sitting on the Accounting Clerk job is 3.7, we see by checking the **Level by Job Title** table in the **Item #108 Sitting** screen that jobs such as Electronics Technician, Inventory Clerk, Librarian and Control Panel Operator have PAQ ratings between 3.0 – 3.9, and that these jobs require sitting two and one half to five hours. Since the PAQ rating for Accounting Clerk is 3.7, we infer that that job requires sitting closer to five hours than two and one half. Since we intend to search for jobs that require only half as much sitting as the Accounting Clerk’s, we see that jobs rated at 1.0 and 1.9 require sitting less than one hour. We note that the next higher level of sitting, 2.0-2.9 requires one hour to two and one half hours, which might be too long. Clicking on **Ratings Summary** in position 5 of the navigation bar in the screen above, returns us to the **Summary of Ratings and Item Limits** screen below:

Worker Rehabilitation Questionnaire

You are currently logged in as: David Robinson [Account Settings](#) [Sign Out](#)

1 [Choose an Evaluation Method](#)
2 [Setup / Open Case](#)
3 [Select Database](#)
4 [Rate Capabilities and Tolerances](#)
5 [Ratings Summary](#)
6 [Run Job Matching Analysis and Generate Reports](#)

Summary of Ratings and Item Limits

Setting Ratings and Limits from job:

Job Title: Accounting Clerk
DOT Number: 216.482-010
PAQ Number: 002775

Item #	Description	Rating	Limit
1	Reading words	23	<input type="text"/>
2	Using numbers	34	<input type="text"/>
3	Using graphics	04	<input type="text"/>
4	Using patterns	0	<input type="text"/>
5	Using information displays	1	<input type="text"/>
6	Using measuring devices	01	<input type="text"/>
7	Watching machines in use	05	<input type="text"/>
8	Watching things you are working with	04	<input type="text"/>
9	Watching features of nature	0	<input type="text"/>
10	Inspecting constructed things	0	<input type="text"/>
11	Watching people or animals	04	<input type="text"/>
12	Watching events around you	03	<input type="text"/>
13	Viewing artistic work	0	<input type="text"/>
14	Listening to speech	24	<input type="text"/>
15	Listening to other sounds	05	<input type="text"/>
16	Touching	03	<input type="text"/>
17	Smelling	0	<input type="text"/>
18	Tasting	0	<input type="text"/>
19	Using far vision	03	<input type="text"/>
20	Using depth vision	01	<input type="text"/>
21	Using color vision	03	<input type="text"/>

[Definition of Item Limit](#)

[Item Limits Decision Rule](#)

 [Review the Last Selected Item](#)

 [Save All Changes](#)

 [Print Ratings and Item Limits](#)

[Show tip about setting an item limit on education](#)

Scrolling down to Item #108 (as we did in this case) or entering “108” to the left of the **Go To Item** button and clicking it to point to that item, we can enter 1.8 in the **Limit** column below to set the item limit:

104	Air or space vehicles	0	
105	Mobile equipment operated by human power	0.1	
106	Operating equipment	0	
107	Remote-controlled equipment	0	
108	Sitting	3.7	1.8
109	Standing	0.9	
110	Walking/running	1.2	
111	Climbing	0	
112	Kneeling or stooping	0.2	
113	Working indoors in high temperatures	0	
114	Working indoors in low temperatures	0	
115	Working outdoors	0	

Having set the item limit in the screen above, in the **Summary of Ratings and Item Limits** screen below, we may click icons (seen on the right of the second screen above) to **Review the Last Selected Item**, **Save All Changes**, which points to set up a case (see [how to set up a case](#)), or **Print Ratings and Item Limits**. In this case, are ready to click **Run the Job Matching Analysis and Generate Reports** on the navigation bar below.

Worker Rehabilitation Questionnaire
 You are currently logged in as David Robinson [Account Settings](#) [Sign Out](#)

1 [Choose an Evaluation Method](#) > 2 [Setup / Open Case](#) > 3 [Select Database](#) > 4 [Rate Capabilities and Tolerances](#) > 5 [Ratings Summary](#) > 6 [Run Job Matching Analysis and Generate Reports](#)

Summary of Ratings and Item Limits

Setting Ratings and Limits from job:

Job Title: Accounting Clerk
 DOT Number: 216.482-010
 PAQ Number: 002775

108 (Job#)

Item #	Description	Rating	Limit
1	Reading words	2.3	
2	Using numbers	3.4	
3	Using graphics	0.4	
4	Using patterns	0	
5	Using information displays	1	
6	Using measuring devices	0.1	

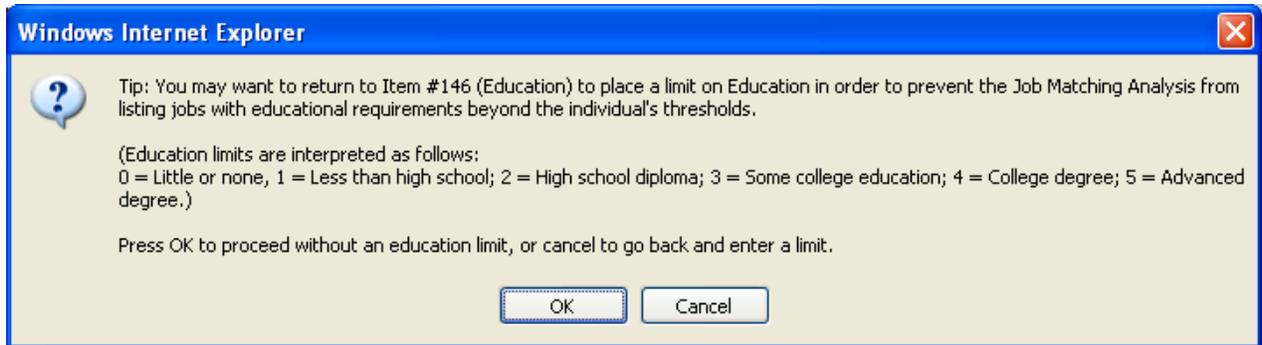
[Definition of Item Limits](#)

[Item Limits Decision Rule](#)



[Review the Last Selected Item](#)

After clicking on **Run the Job Matching Analysis and Generate Reports**, the following tip appears:



When an individual is unlikely by circumstances, resources, motivation or some other reason to get further education, it may decrease face validity to list closely-matching jobs that require more education than the individual is likely to acquire. For this reason, it may be useful to set an item limit on Item #146 Education to prevent the job matching analysis from listing jobs with unrealistic educational requirements. This tip can be suppressed by unchecking the box on the last icon that appears on the **Summary of Item Ratings and Limits** screen four screens above. After either setting an item limit on Education or by suppressing that tip, the **Please Wait – Performing Matching Process** screen appears:



As we wait for the report, the [job-matching algorithm](#) matches ratings of individual capabilities and tolerances with PAQ ratings of all 2,491 jobs in the PAQ database.

At last the report appears listing PAQ items, job analysis ratings and item limits set on the job of Accounting Clerk below:

Worker Rehabilitation Questionnaire

You are currently logged in as: [David Robinson](#) [Account Settings](#) [Start](#) [Exit](#)

1 [Choose an Evaluation Method](#) >> 2 [Setup / Open Case](#) >> 3 [Select Database](#) >> 4 [Rate Capabilities and Tolerances](#) >> 5 [Ratings Summary](#) >> 6 [Run Job Matching Analysis and Generate Reports](#)

[View Report](#)

Personal Information

Name: Unsaved Exam Insurance Carrier: N/A
 Birth Date: N/A Claim #: N/A
 Telephone #: N/A Diagnosis: N/A
 Case Notes: This exam was created by setting item limits on job 216.482-010 - Accounting Clerk.

[This exam has not yet been saved. Click here to save it.](#)

Items	Rating	Limit
1. Reading words	2.3	
2. Using numbers	3.4	
3. Using graphics	0.4	
4. Using patterns	0	
5. Using information displays	1	
6. Using measuring devices	0.1	
7. Watching machines in use	0.5	
8. Watching things you are working with	0.4	
9. Watching features of nature	0	
10. Inspecting constructed things	0	
11. Watching people or animals	0.4	
12. Watching events around you	0.3	
13. Viewing artistic work	0	
14. Listening to speech	2.4	

The **Limit** column is blank until Item # 108, Sitting, which shows the 1.7 limit set on that item:

103. Powered water vehicles	0	
104. Air or space vehicles	0	
105. Mobile equipment operated by human power	0.1	
106. Operating equipment	0	
107. Remote-controlled equipment	0	
108. Sitting	3.7	1.7
109. Standing	0.9	
110. Walking/running	1.2	
111. Climbing	0	
112. Kneeling or stooping	0.2	
113. Working indoors in high temperatures	0	
114. Working indoors in low temperatures	0	
115. Working outdoors	0	
116. Working in impure air	0	
117. Working with vibrating equipment	0	
118. Working under poor lighting	0	

