

# Task Lighting and Illuminated Magnifier Needs Assessment



Organization \_\_\_\_\_ Department \_\_\_\_\_  
 Interviewee (employee) \_\_\_\_\_ Interviewer \_\_\_\_\_ Date \_\_\_\_\_

The assessment of the need for task lighting and illuminated magnifiers considers factors in three major areas:

- What task or tasks are being performed?
  - What are the environmental conditions in which the tasks are performed?
  - Who is performing the tasks?
- **What is the primary task (or tasks) being performed at the workstation that may require better or additional lighting or magnification?**

Description of Task(s) \_\_\_\_\_  
 \_\_\_\_\_

☞ Please circle the number below appropriate category description. ☞

## 1. How long do you stay on the task(s) during an 8 hour shift?

Less than 1 hour	1 to 2 hours	3 to 4 hours	5 to 6 hours	7 to 8 hours
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

## 2. What is the size of the object or area being viewed in the task?

(Examples: text, electronic components, screw threads, small area of larger object.)

<u>Very Large</u> , objects greater than 1 x 1 inch	<u>Large</u> , 20 pt "This size"	<u>Normal</u> , 12 to 18 pt. text "This size"	<u>Small</u> , 6 to 10 pt. text "This size"	<u>Very small</u> , 5 pt text or less. "This size"
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

## 3. What is the contrast level for the task?

Contrast is the difference between foreground and background. Black text on white paper is a high contrast task and easy to read. Dark gray text on black paper is a low contrast task and hard to read. Finding surface defects on a dark metal or painted surface is hard to see.

<u>Very High</u> contrast	<u>High</u> contrast	<u>Normal</u> contrast	<u>Low</u> contrast	<u>Very Low</u> contrast
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

➤ **What are the environmental conditions in which the tasks are performed?**

**4. How bright is the light level on the task from natural and overhead lighting?**

<b><u>Very Bright</u></b> Like being outside on a sunny day.	<b><u>Bright</u></b> Good light on the specific task, no eye strain.	<b><u>Adequate</u></b> Sufficient light with tired eyes at the end of the work day.	<b><u>Dim</u></b> Insufficient light causing some eyestrain to see the task.	<b><u>Very Dim</u></b> Definitely not enough light for the task.
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

**5. Is there glare on the task from ambient and overhead lighting?**

(Examples: glare on glossy paper, glare on shiny metal, glare on computer screen.)  
Solution to glare issue is to reduce offending light source by using task lighting.

<b><u>No glare</u></b>	<b><u>Very slight glare</u></b>	<b><u>Slight glare</u></b>	<b><u>Noticeable glare</u></b>	<b><u>Extreme glare</u></b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

➤ **Who is performing the tasks?**

**6. What is the age range of the individual performing the task?**

<b><u>20 to 29</u></b>	<b><u>30-39</u></b>	<b><u>40-49</u></b>	<b><u>50-59</u></b>	<b><u>60+</u></b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

**7. Does the individual have visual impairment?**

Does not wear glasses to see well.	Wears high quality safety <b><u>on the job.</u></b>	Wears low quality safety glasses <b><u>on the job.</u></b>	<b><u>Definite</u></b> visual difficulty: wears corrective lenses all the time.	<b><u>Extreme</u></b> visual impairment: wears <b><u>strong</u></b> corrective lenses all the time.
<b>1</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>8</b>

**8. How satisfied is the individual with the present lighting?**

<b><u>Very satisfied</u></b>	<b><u>Satisfied</u></b>	<b><u>Average</u></b>	<b><u>Dissatisfied</u></b>	<b><u>Extremely Dissatisfied</u></b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

Please total the ratings for all questions.

**Rating Scale for Total Scores**

**Total Score** \_\_\_\_\_

- 25 – 43      Strong need for task lighting or illuminated magnifiers.
- 15 – 24      Probable need for task lighting or illuminated magnifiers.
- 14 or below   Little need for task lighting or illuminated magnifiers.