

public release

Rev 1.0 (EN)

SMKL Simple Judgment Tool

User's Manual

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1. What is the SMKL Simple Judgment Tool?

SMKL (Smart Manufacturing Kaizen Level) is the Smart Manufacturing of Plants or Factories and Supply Chain.

(SM: Smart Manufacturing) is represented by four stages of visualization and four ranges of objects to be managed and is a simple evaluation index that can be used to judge how far a factory has progressed with SM. (Fig. 1) This "SMKL Judgment" is a system that simply judges the SMKL of the user's factory by answering simple questions.

SMKL has been opened by the IAF/SMKL project and a white paper has been published.

The SMKL White Paper is available at:

<https://iaf.mstc.or.jp/index.php/smkl/>

The SMKL Simple Judgment Tool is available at the following URL.

<https://pc2.gsensor-unet.ocn.ne.jp/SMKL/login>

Productivity (Throughput rate) **3b**

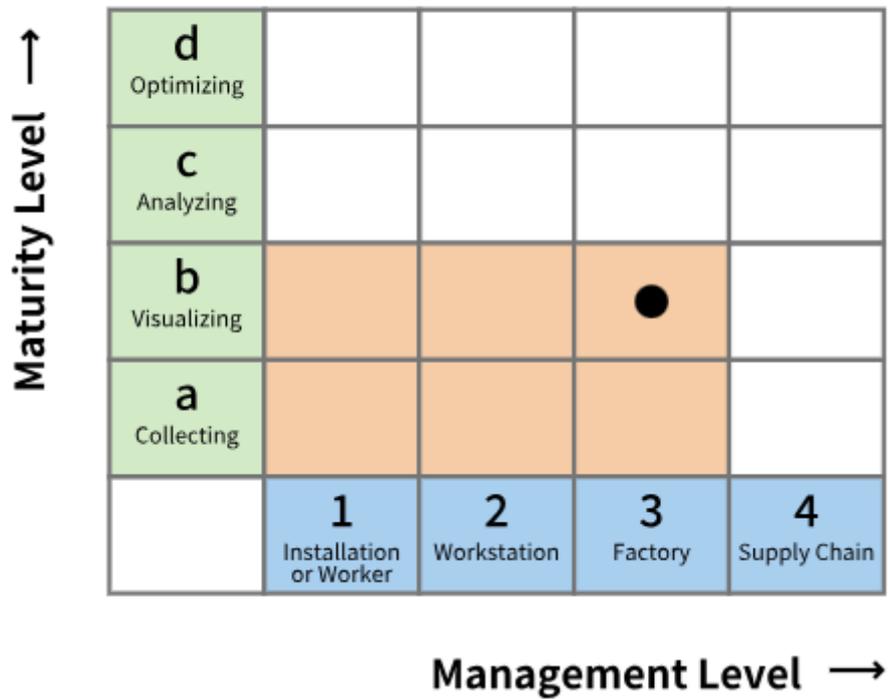


Figure 1 SMKL (Smart Manufacturing Kaizen Level)

2. SMKL Simple Judgment Tool Usage

By using this tool, you agree to the terms of use on the initial screen.

To use the SMKL Simple Judgment Tool, you can either enter your user ID and password, or try it without issuing a login ID.

When an ID is issued, the SMKL simplified judgment result is saved on the website and can be referred to later.

If you do not issue an ID, the simple judgment result is not saved and cannot be referenced, but you can use it when you want to use it as a trial.

SMKL Simple Evaluation Tool

[What is Simple SMKL Evaluation Tool?](#)

JP
EN

Precautions

This tool is a trial version and does not guarantee any saved data.
You can download and save the SMKL evaluation results in the CSV format on your device.

Please save your ID and password.
If you forgot your ID or password, issue a new ID.
In that case, evaluation results with your old ID will be reset.

Information gathered from the survey will be used to improve user experience of this tool.
By using this tool, you are deemed to have agreed to the terms of use below.

[Terms of Use](#)

User ID

Password

Login

Auto Generate User ID

[Try Without Login ID](#)

Figure 2 Initial screen

3. Automatic issuance of user IDs

① Press the Auto Issue User ID button and select Yes.

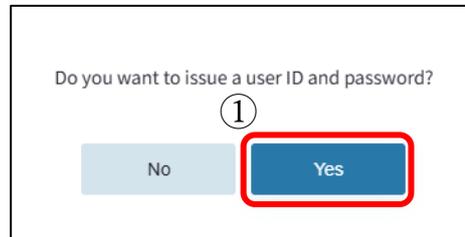


Figure 3

For the input items in Figure 4

⑦ Select a major category for your company's industry

⑥ Select the middle field for your company's industry

⑤ Select the number of employees at the work location

④ Select your current position

③ Select your current responsibilities or role

② Select your current work location

Please fill out the following form to get your user ID.

Company's sector ⑦ ⑥

Number of employees in your work location
(Do not include the number of employees in other work locations and group companies.)

⑤

Current position

④

Current responsibilities

③

Current work location

②

Figure 4 User information entry screen

Select the Next button to issue the user ID. To cancel without issuing a user ID, select the Cancel button.

Your user ID and password have been issued.

User ID :

Password :

Please save your ID and password.

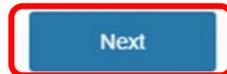


Figure 5

Make a note of the issued user ID and password and click the "Next" button.

If you lose your ID and password, we cannot reissue them.

Then select the authentication question and enter your answer. Make a note of this, as you will need it if you want to change your password later.

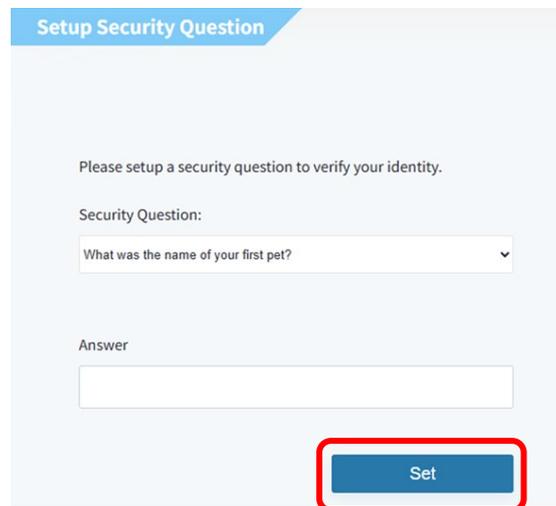
A screenshot of a web form titled "Setup Security Question". The form has a light blue background and a blue header bar with the title. Below the header, there is a prompt: "Please setup a security question to verify your identity." Underneath, there is a "Security Question:" label followed by a dropdown menu showing "What was the name of your first pet?". Below that is an "Answer" label followed by a text input field. At the bottom right of the form, there is a blue "Set" button with a white border, which is highlighted with a red rectangular border.

Figure 6

Press the "Set" button to complete ID issuance.

4. File menu

When you log in, the menu in the following screen is displayed. If you try without issuing a login ID, only ⑧ Start Judgment and ⑩ Take Survey (Answer Questionnaire) are displayed in the following menus.

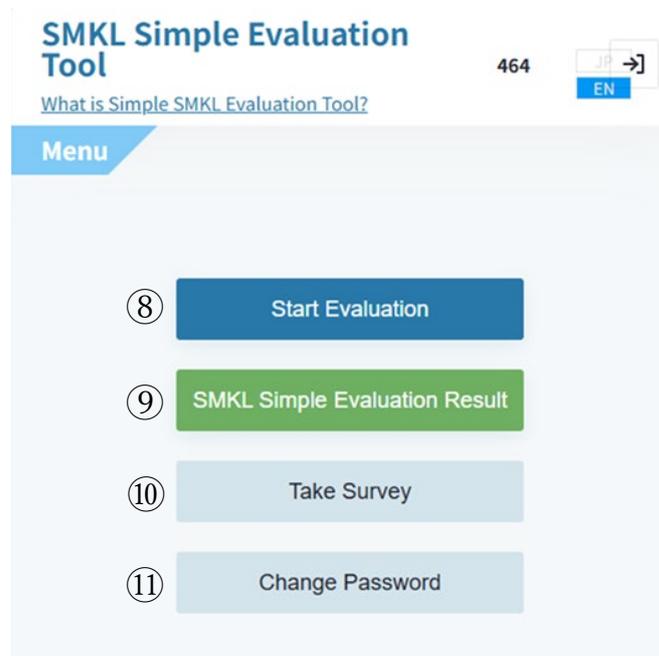


Figure 7

⑧ Start judgment

SMKL Simplified judgment is performed.

⑨ SMKL simplified judgment result

Displays the SMKL simple judgment result.

⑩ Respond to the questionnaire

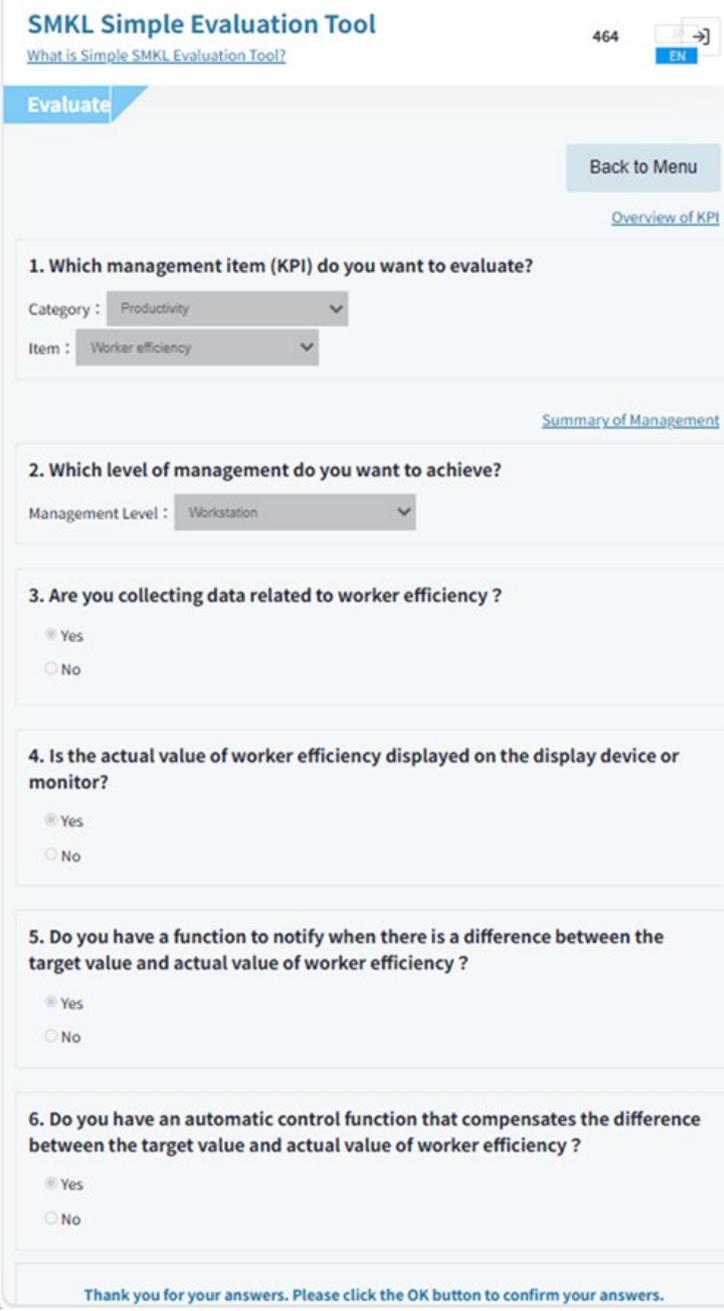
The questionnaire will be displayed, so please fill in your answers.

⑪ Changing the password

Change the password.

5. Begin to make a judgment

Select the answer to the question in the form below and press the OK button.



SMKL Simple Evaluation Tool 464 EN

[What is Simple SMKL Evaluation Tool?](#)

Evaluate

[Back to Menu](#)

[Overview of KPI](#)

1. Which management item (KPI) do you want to evaluate?

Category : Productivity

Item : Worker efficiency

[Summary of Management](#)

2. Which level of management do you want to achieve?

Management Level : Workstation

3. Are you collecting data related to worker efficiency ?

Yes

No

4. Is the actual value of worker efficiency displayed on the display device or monitor?

Yes

No

5. Do you have a function to notify when there is a difference between the target value and actual value of worker efficiency ?

Yes

No

6. Do you have an automatic control function that compensates the difference between the target value and actual value of worker efficiency ?

Yes

No

[Thank you for your answers. Please click the OK button to confirm your answers.](#)

Figure 8

6. SMKL simplified judgment result

Displays the SMKL judgment result for each KPI. (Figure 9)

The judgment results to be displayed can be selected by selecting the pull-down menu below.

⑨-1 status

Select All, Judged or Unjudged

⑨-2 Classification

All select productivity, quality, capability, environment, inventory management and maintenance.

⑨-3 items

Select the KPI attributed to classification ⑨-2

Evaluation Result

Back to Menu

Your SMKL evaluation results are shown below.

Please check the current level of IoT implementation for planning the introduction of new solutions or products to improve your IoT level.

By selecting the level of IoT implementation to reach from 16 levels in the SMKL model, you can see the solutions and products required to achieve your goal.

CSV Input

CSV Output

Status : All (9) -1

Category : All (9) -2

Item : All (9) -3

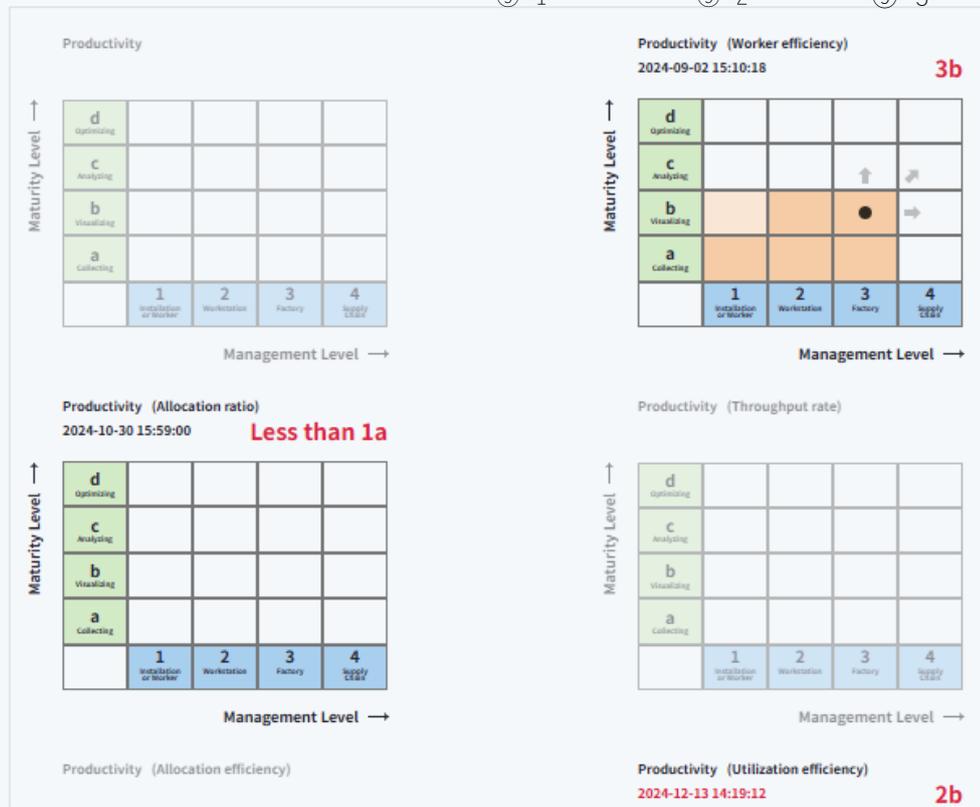


Figure 9 SMKL judgment result

7. Solution Search

Clicking one cell (Cells such as 1a and 2b, for example) in the SMKL simplified judgment results opens the solution search window for the corresponding SMKL level. (Figure 10)

- You can narrow the search results by checking the checkbox (⑩-1) on the left of the screen and clicking the magnifying glass symbol.

- You can narrow down the search results by specifying keywords in the input field at the upper right (⑩-2).

- Check the Simplified Display checkbox (⑩-3) to display 1 line

Go to (external web page)

- Solutions page linked by clicking on the search result (⑩-4)

Go to (external web page)

- Select Ascending or Descending for the display order by title, company name, and contents. (⑩-5)

Search Solutions

The solutions for your SMKL level are listed below.
 You can enter a keyword to narrow down the solutions.
 (To narrow down your search results, select the conditions and click the search button to update)

SMKL Simple Evaluation Result

⑩ -1

Filter Your Search 🔍

Management Level

- 1: Installation or Worker
- 2: Workstation
- 3: Factory
- 4: Supply Chain

Maturity Level

- a: Collecting
- b: Visualizing
- c: Analyzing
- d: Visualization (improvement)

Management Item (KPI)

- Productivity

Management Item (KPI): 生産性 (利用効率) SMKL Level: **1a** Search Results: **2** results

⑩ -2 🔍

Simplified representation ⑩ -3 ⑩ -5 Ascending title ▼

⑩ -4

Quality **Clear work procedures improve productivity and quality**
 Mitsubishi Electric Corporation

Preventing mistakes in component selection by using system-linked boxes and assisting operators in selecting screwdrivers with pre-set torque values. Collecting on-site data helps identify areas to be improved.

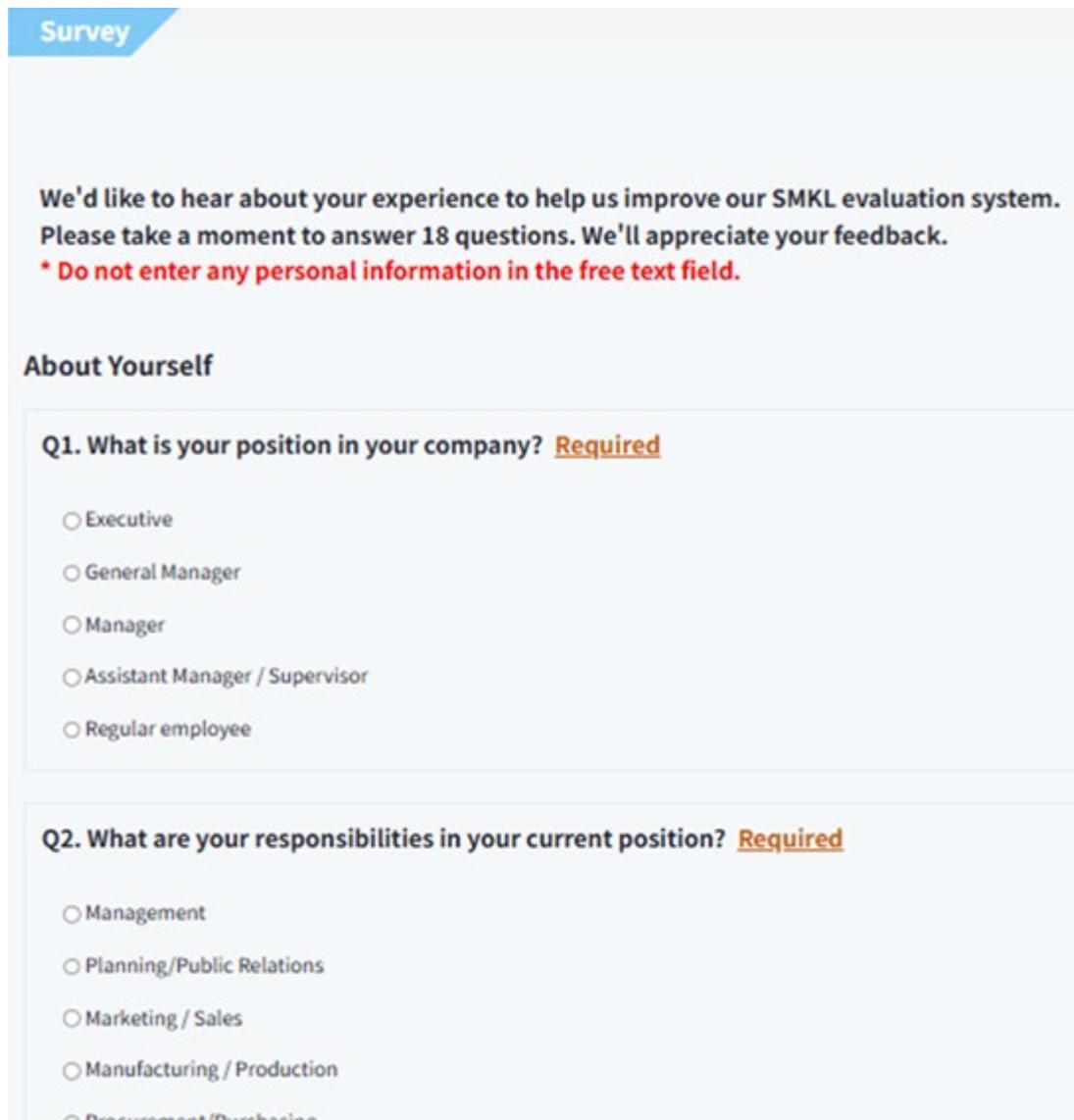
Maintenance **High-mix, short-term delivery achieved by e-F@ctory, for the basis of unique services such as delivery within 5 days/15 days**
 Mitsubishi Electric Corporation

By visualizing the time required for winding operations, which vary depending on customer specifications, while stabilizing the machining accuracy of the lathe based on data from shaft grinding, we have established unique services such as shipping some special products of a wide variety of 3-phase motors within 5 days or 15 days.

Figure 10 Solution Search Screen

8. answer a questionnaire

Complete the 18-item questionnaire and click the "Confirm" button.



Survey

We'd like to hear about your experience to help us improve our SMKL evaluation system. Please take a moment to answer 18 questions. We'll appreciate your feedback.
*** Do not enter any personal information in the free text field.**

About Yourself

Q1. What is your position in your company? Required

- Executive
- General Manager
- Manager
- Assistant Manager / Supervisor
- Regular employee

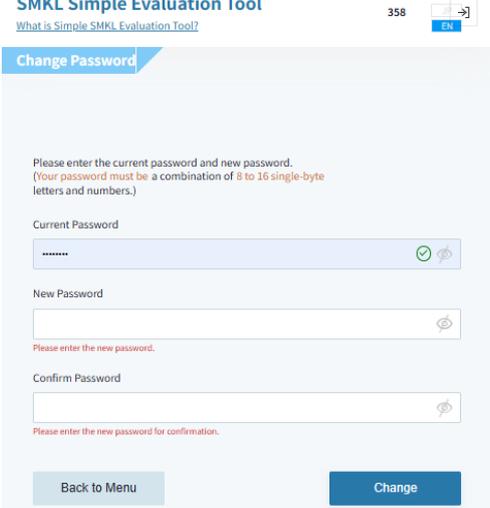
Q2. What are your responsibilities in your current position? Required

- Management
- Planning/Public Relations
- Marketing / Sales
- Manufacturing / Production
- Procurement/Purchasing

Figure 11

9. change password

- ⑪-1 Enter the current password
 - ⑪-2 Enter the new password
 - ⑪-3 Enter the new password (reconfirm)
- Click the "Change" button if you want to change the password. Click the "Return to Menu" button if you do not want to change the password.



The screenshot shows the 'Change Password' page of the SMKL Simple Evaluation Tool. The page has a blue header with the title 'SMKL Simple Evaluation Tool' and a sub-header 'What is Simple SMKL Evaluation Tool?'. In the top right corner, there is a page number '358' and a language selector 'EN'. The main content area is titled 'Change Password' and contains the following text: 'Please enter the current password and new password. (Your password must be a combination of 8 to 16 single-byte letters and numbers.)'. There are three input fields: 'Current Password' (with a green checkmark icon), 'New Password' (with a red error message 'Please enter the new password.'), and 'Confirm Password' (with a red error message 'Please enter the new password for confirmation.'). At the bottom, there are two buttons: 'Back to Menu' and 'Change'.

⑪ -1

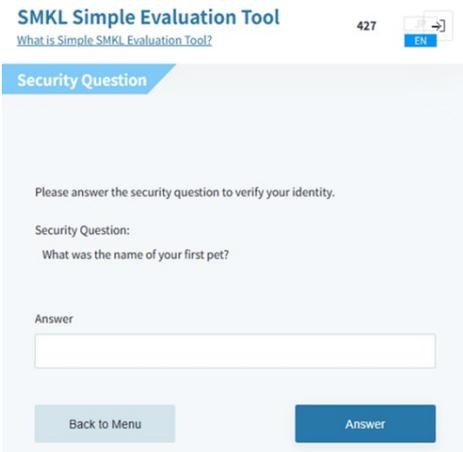
⑪ -2

⑪ -3

Figure 12

- Enter answers to authentication questions when configuring ⑪-4 identity
- If you want to change the password, click the "Answer" button. If you do not want to change the password, click the "Return to Menu" button.

⑪ -4



The screenshot shows a web interface for the SMKL Simple Evaluation Tool. At the top, the title "SMKL Simple Evaluation Tool" is displayed in blue, with a link "What is Simple SMKL Evaluation Tool?" below it. To the right of the title, the number "427" and a language selection button labeled "EN" are visible. The main content area is titled "Security Question" in a blue header. Below this, the text "Please answer the security question to verify your identity." is shown. The security question is "What was the name of your first pet?". Below the question is a text input field labeled "Answer". At the bottom of the form, there are two buttons: "Back to Menu" (light blue) and "Answer" (dark blue).

Figure 13