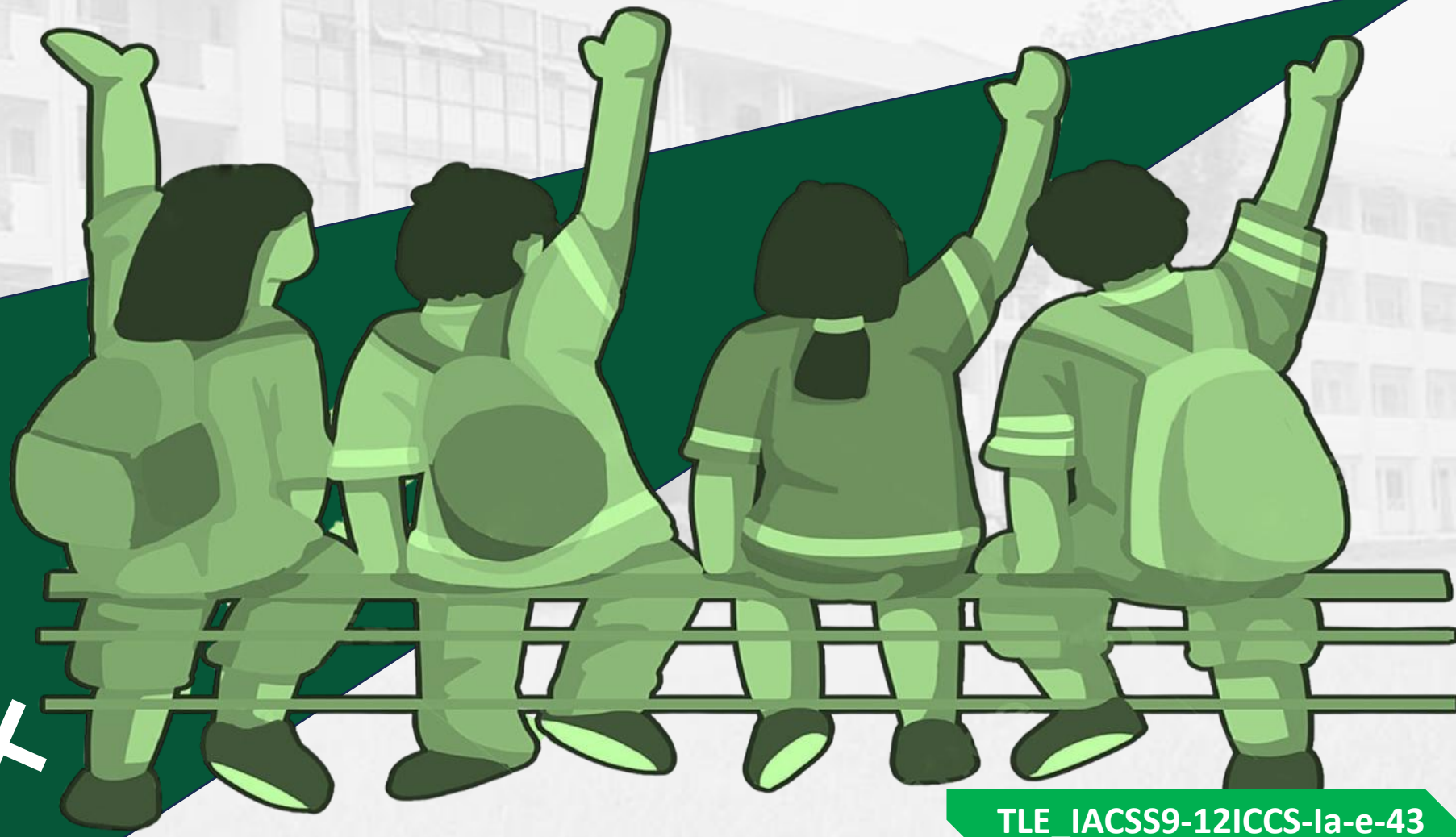
U4L089

Tools and Tests Equipment

TLE_IACSS9-12ICCS-Ia-e-43

Roll Call



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Recap of the Lesson

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What are the tools and test equipment?

Tools

A tool is a handheld device that aids in accomplishing a task. Tools range from traditional metal-cutting parts to elements of computer programs that activate and control particular functions.

Selecting the best tool requires

- Understanding the scope of work.
- Planning the sequence of tasks.
- Training in proper tool use.
- Following manufacturer's instructions.

Preparing for the Task

1. Obtain all necessary tools and associated consumable parts as recommended by the manufacturer.

Preparing for the Task

2. Use tools only for their intended purposes.

3. Follow safety guidelines and manufacturer's instructions.

Categories of Tools

- ESD Tools
- Hand Tools
- Cleaning Tools
- Diagnostic Tools

Categories of Tools

ESD Tools

Prevent damage from static electricity.

Examples:
Anti-static wrist straps, anti-static mats, anti-static jackets.

Categories of Tools

Hand Tools

Used for assembling and disassembling components.

Examples: Screwdrivers, pliers, tweezers, flashlights.

Categories of Tools

Cleaning Tools

Maintain cleanliness of components.

Examples: Lint-free cloths, compressed air, cable ties, parts organizers.

Categories of Tools

Diagnostic Tools

Test and diagnose hardware issues.

Examples: Multimeters, loopback adapters, network testers.

Safety Practices

- Keep tools in good condition with regular maintenance.
- Use the right tool for each job.

Safety Practices

- Examine tools before use; do not use damaged or defective tools.
- Operate tools according to manufacturer's instructions.
- Use appropriate protective equipment for each tool and activity.

Activity:
Create a list of tools. Give 10 tools and write its respective functions and usage.

Evaluation

1. Why does tool should be use accordingly?
2. Is it recommendable to use an alternative tool?

Foreword

Every bug in software and every flaw in hardware is just a puzzle waiting for a sharp mind to solve. Be the one who turns glitches into breakthroughs.

You are now ready to move in the next lesson.