🛠 Taller Integrado: CNC y Competencias en Inglés

Actividad 1 – Vocabulary Match (Mastercam Basics)

Relaciona cada término de Mastercam con su definición correcta.

A	Term	B	Definition
1	Toolpath	a	Visual preview of machining operations.
2	Post processor	b	Converts CAM instructions into machine-readable code.
3	G-code	c	The trajectory that a cutting tool follows.
4	Simulation	d	A file format used to save part programs.

Actividad 2 – Vocabulary in Context

Llena los espacios en blanco con las siguientes palabras: toolpath, stock, spindle, axis, verify.

1. The _____ controls the rotation of the cutting tool.

2. Before machining, the _____ must be set according to the material dimensions.

3. The X, Y, and Z _____ define the movement directions.

4. A _____ is necessary to ensure there are no collisions.

5. The _____ is calculated based on the part geometry.

Actividad 3 – Grammar Focus: Present Perfect

Subraya la opción correcta.

1. He (has/has been) working on Mastercam since last semester.

2. We (have created/have create) several toolpaths for different parts.

3. The students (has completed/have completed) the setup sheet.

4. She (have exported/has exported) the G-code successfully.

Actividad 4 – Grammar Transformation (Present Perfect)

Transforma las frases al present perfect.

1. I design the part. → _____

2. We generate the toolpath. → _____

3. They simulate the process. → _____

4. He loads the post processor. → _____

Actividad 5 – Passive Voice in the Present Simple

Convierte las siguientes oraciones a voz pasiva (presente simple).

1. The technician loads the program. → _____

2. The operator sets up the machine. → _____

3. The software generates the toolpath. → _____

4. The student exports the G-code. → _____

Actividad 6 – Identify Passive Voice

Subraya las oraciones que están en voz pasiva.

1. The part is machined using a 3-axis milling machine.

2. He programs the machine using Mastercam.

3. The simulation is verified before execution.

4. They check the tool list manually.

Actividad 7 – Speaking Practice: Vocabulary Explanation

Instrucciones:
Prepara una breve explicación oral (1–2 minutos) de los siguientes términos técnicos de Mastercam. Explica qué son y para qué sirven, usando tus propias palabras. Le sustentarás al instructor cada término.

Términos:

1. Toolpath

2. Axis

3. Simulation

4. Workpiece

5. G-code

Actividad 8 – Word Bank: Definitions Writing

Usa 5 palabras del vocabulario técnico y escribe una definición corta en inglés para cada una.

Ejemplo: Spindle – It is the part that rotates the tool.

1. _____

2. _____

3. _____

4. _____

5. _____

Actividad 9 – Error Correction

Corrige los errores gramaticales en las siguientes frases:

1. The part have been machined successfully. → _____

2. The setup is doing by the student. → _____

3. I has exported the program. → _____

4. The machine are operated manually. → _____

Actividad 10 – Speaking Presentation (Individual)

Instrucciones:
Prepara una breve explicación oral (3 minutos) respondiendo a la siguiente pregunta:

🗣️ "What have you learned so far about using Mastercam in CNC operations?"

Incluye:

- Mínimo menos 4 frases en present perfect.

- Mínimo 4 oraciones con passive voice.

- Mínimo 4 términos técnicos de Mastercam.