The Tool Confidence Level (TCL) for a software tool used in ISO 26262 activities is determined by evaluating two key analysis classes: Tool Impact (TI) and Tool error Detection (TD) (ISO 26262-8:2018, Clause 11.2; ISO 26262-10:2018, Clause 13). The determination of TI and TD depends on the specific use cases of the tool and the development process of the element being developed or verified (ISO 26262-8:2018, Clause 11.2).

Here's a breakdown of these factors:

- 1. **Tool Impact (TI):** This class evaluates the possibility that a malfunction of the software tool could introduce or fail to detect errors in a safety-related item or element being developed (ISO 26262-8:2018, Clause 11.4.5.2; ISO 26262-10:2018, Clause 13).
 - **TI1:** Selected when there is an argument that no such possibility exists (ISO 26262-8:2018, Clause 11.4.5.2).
 - TI2: Selected in all other cases (ISO 26262-8:2018, Clause 11.4.5.2).
- 2. **Tool error Detection (TD):** This class assesses the confidence in measures that either prevent the software tool from malfunctioning and producing erroneous output, or detect such malfunctions and erroneous outputs (ISO 26262-8:2018, Clause 11.4.5.2; ISO 26262-10:2018, Clause 13). These measures can be internal to the tool or external, implemented in the development process (ISO 26262-8:2018, Clause 11.2).
 - TD1: Selected if there is a high degree of confidence that a malfunction and its corresponding erroneous output will be prevented or detected (ISO 26262-8:2018, Clause 11.4.5.2).
 - TD2: Selected if there is a medium degree of confidence that a malfunction and its corresponding erroneous output will be prevented or detected (ISO 26262-8:2018, Clause 11.4.5.2).
 - TD3: Selected in all other cases, typically when no systematic measures are available, and malfunctions can only be detected randomly (ISO 26262-8:2018, Clause 11.4.5.2).

The required software Tool Confidence Level (TCL) is then determined based on the combination of the determined TI and TD values, as specified in Table 3 of ISO 26262-8:2018 (ISO 26262-8:2018, Clause 11.4.5.4):

Tool impact	Tool error detection		
	TD1	TD2	TD3
TI1	TCL1	TCL1	TCL1
TI2	TCL1	TCL2	TCL3

If the correct selection of TI or TD is unclear or doubtful, they should be estimated conservatively (ISO 26262-8:2018, Clause 11.4.5.3).

Additional list of clauses used:

- ISO 26262-8:2018, Clause 11.2
- ISO 26262-8:2018, Clause 11.4.5.2
- ISO 26262-8:2018, Clause 11.4.5.3
- ISO 26262-8:2018, Clause 11.4.5.4
- ISO 26262-8:2018, Table 3
- ISO 26262-10:2018, Clause 13

Correctness = 5P, Completness = 5P