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| **Introduction to One-Sample** $t$**-Tests** |
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| **Setting:** | Seminar |
| **Preparation duration:** | 10 minutes |
| **Level:** | Level 4 |
| **Activity duration:** | 45 minutes |
| **Additional guidance:** | This seminar is available in worksheet (Introduction to One-Sample t-Tests.docx) and/or slide presentation (Introduction to One-Sample t-Tests.pptx) form. |
| **Outcomes:** * Explore the three crucial components of the one-sample $t$-test test statistic via the use of an example.
* Provide students with a simple procedure for conducting a one-sample $t$-test.
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| **Pre-task preparation:** * If required, familiarise yourself with the content.
* Consider appending the activity of the worksheet and slide presentation with questions from your field that require the use of $t$-tests.
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**Steps to implement the activity:** 1. Ask students to share any prior knowledge of hypothesis testing.
2. Present the material to the students, referring to your own field if necessary.
3. At the end of the material, allow the students 20 minutes to work through the final activity.

**Extension activities:** * Ask students to identify other real-word applications for which the use of one-sample $t$-tests are applicable.
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