

Innovation Tools & Techniques

| Module No | Tool/ Technique | Purpose | Description |
|-----------|-------------------------|--|--|
| IN1 | Breaking Assumptions | Testing assumptions to create new innovative solutions. | A way of looking at assumptions around a problem or process as a way to create new ideas and solutions. |
| IN2 | SCAMPER | Using areas of questions to help create ideas when developing new services/ processes. | You use the tool by asking questions about existing products/ processes, using each of the seven prompts; Substitute, Combine, Adapt, Modify, Put to another use, Eliminate and Reverse. These questions help you come up with creative ideas for developing new products/processes, and for improving current ones. |
| IN3 | 6 Thinking Hats | Structured way of looking at an issue from a different perspective based on work by Edward de Bono. | 'Six Thinking Hats' is an important and powerful technique. It is used to look at decisions from a number of important perspectives. This forces a move outside of habitual thinking styles, and helps get a more rounded view of a situation. |
| IN4 | Random Word | A means of thinking 'outside of the box' using a random word to connect to a problem. | A way to allow thinking 'outside the box' - associate a random word with the problem's statement and make connections to get see how this word can help you see your problem in a different way. |
| IN5 | Debono's Thinking Tools | A variety of innovative thinking tools based on the work of Edward de Bono. | Tools include, PMI (Plus Minus Interesting), CAF (Consider All Factors) and others that help with innovation and testing a solution. |
| IN6 | TRIZ | Highly structured way of: being resourceful when solving problems, understanding process conflict, and using free/cheap resources. | TRIZ is a way of understanding a problem using a number of systematic techniques including: understanding process conflicts, use of cheap/free resources and thinking about the ideal solution. It emerges from engineers seeking to resolve complex challenges. Based on a Russian methodology. |