

# TEC 40 PRACTICAL APPLICATION 2

## Objective

Working with your team, at the end of this Practical Application, you will be able to:

1. Explain and demonstrate the basic features and operation of desktop decompression software.
2. Calculate your working SAC rate.
3. Plan a decompression dive within Tec 40 limits by planning/calculating gas requirements, maximum depth, exposure suit requirements, methods for meeting an objective, turn pressure and other particulars.

## Instructions

1. Review one or more types of desktop decompression software with your instructor.
2. Demonstrate that you are able to:
  - Launch the program
  - Enter settings
  - Plan a Tec 40 level dive similar to one that you will be making
3. Without exceeding Tec 40 limits, use desktop decompression software and A Good Diver's Main Objective Is To Live dive planning steps to plan a Tec 40 level dive. Use the following information:
  - Location: *Milwaukee Car Ferry*
  - Maximum Depth = 120 feet
  - Maximum Bottom time = 25 minutes
  - SAC = .8 working; .6 deco
  - Temperature = 40F
  - Cylinder sizes: twin 80 cf aluminum @ 3000 psi; single 40 cf aluminum @ 3000 psi

REMINDER: When planning this dive, you may need to adjust the depth or bottom time to accommodate Tec 40 or gas limits.

Information for your dive should be recorded on the TecRec Dive Planning Checklist and the Dive Planning Slate. Once complete, think backwards through the dive with your team and record any realistic problems you may encounter on a separate sheet of paper. Make sure to provide solutions to each problem you record.