

PSYCHOACOUSTICS

INTRODUCTION

One-day Course
6 Participants

DATES AND TIMES

Flexible

PREREQUISITIES

Experienced Engineers or PhD Assistances
who work in Automotive or NVH Field

LEARNING OBJECTIVES

- ✓ Understanding the sound perception phenomena
- ✓ Express critical thinking about psychoacoustics parameters
- ✓ Implementation of sound assessment methods
- ✓ Criticize sound quality and sound design

TRAINING CONTENT

- **Introduction**
 - New Challenges & Open Questions
 - Importance of the sound awareness
 - Application Areas
- **Fundamentals of Psychoacoustics**
 - Perception of Humans
 - Masking Effects
 - Frequency Ratings (A, B and C)
 - Binaural Techniques (Artificial Head)
- **Psychoacoustics Parameters & Analysis Techniques**
 - Loudness
 - Sharpness
 - Roughness
 - Fluctuation Strength
- **Assessment Methods**
 - Listening Studio
 - Subjective Assessment
- **Sound Quality**
 - Concept Study
 - Sound Design Techniques
 - Active Vibration Design
 - Active Sound Design