

MADYMO Contacts training

The MADYMO contact course is designed for engineers with basic knowledge of and experience with MADYMO modelling. The MADYMO contacts' training provides an overview of the different contact types that are implemented in MADYMO. The possible contact types/algorithms and their working principles are described in detail. The 1 day training will be a mixture of theory and practice

The training content is a mixture of theory and hands-on exercises. The knowledge gained in the theory parts will be applied in practical assignments, ranging from fundamental up to more application focused exercises. The training is given by TASS' own experts in MADYMO software application.

At the end of the training the user will be familiar with the different contact types in MADYMO. The user will be able to choose the best suitable contact type for its application and will be acquainted with and be able to give or derive the requested input for that contact definition.

Course Contents

General

- Geometrical entities in MADYMO
- Overview MADYMO contact models

Contact MB_MB

- Elastic, Damping & Friction forces
- Contact specification
- Contact evaluations
- Initial penetration options

Contact MB_FE

- Contact specification
- Contact methods
 - Kinematic contacts
 - Characteristic based contacts
- Stress and Force based approaches.

Contact FE_FE

- Contact specification
- Contact methods
 - Characteristic based contact
 - Material based contact
- Initial penetration options

Examples, Use cases, Tips & Tricks