

3 Day KISSsoft Training

## Bevel and Hypoid Gears from Design to Manufacture

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Feb 26<sup>th</sup> to 28<sup>th</sup>, 2024

Location:	The Gleason Works 1000 University Ave, Rochester, NY 14607, USA
Arrival:	Feb 26 <sup>th</sup> , 2024 by 7:30 am, EST, Gate 1
Class Time:	8:00 am – 5:00 am, EST
Trainer:	Juerg Langhart, KISSsoft AG, Switzerland
Pricing:	\$1,800 per person, \$1,600 for groups of 2+
Registry:	Until February 16 <sup>th</sup> , 2024

Lunch is included as part of the course fee in the Gleason cafeteria. Gleason will host a dinner event for all participants at 5:00 pm, EST on February 27<sup>th</sup>, 2024.

Participants will need to bring their laptops. Gleason will provide software, test licenses and training material electronically prior to the training.

## Day 1

Morning Session

### Cutting Methods and Geometry

- 08:00 – 08:20 am Introduction
- 08:20 – 09:45 am Cutting methods for straight bevel gears, Face Hobbing, Face Milling
- 10:00 – 11:30 am Calculation of geometry according to ISO 23509
- 11:30 – 12:00 am Exercise: Input from a Gleason dimension sheet
- 12:00 – 01:30 pm Lunch

Afternoon Session

### Strength Calculation

- 01:30 – 02:40 pm Strength calculation according to different standards such as ISO 10300, AGMA, etc.
- 02:55 – 04:00 pm Other calculations such as scuffing, flank fracture, efficiency, etc.
- 04:00 – 05:00 pm Exercise: Bevel gear strength calculation

## Day 2

Morning Session

### Bevel Gears Design and Contact Analysis

- 08:00 – 09:30 am Design of macro geometry
- 09:50 – 10:30 am Exercise: Sizing of a hypoid gear pair
- 10:30 – 11:00 pm Design processes for conventional manufacturing and 5-Axis milling
- 11:00 – 11:30 pm Exercise: Topological modification and measurement grid
- 11:30 – 12:30 pm Contact analysis and micro geometry
- 12:30 – 01:30 pm Lunch

## Day 2

Afternoon Session

### Processes

01:30 – 02:30 pm Development of summary in GEMS (trainer: Markus Bolze)

02:50 – 04:30 pm Plant tour and machines (trainer: Markus Bolze)

## Day 3

Morning Session

### Bevel Gears in Transmissions

08:00 – 08:10 am Bevel gears in transmissions in KISSdesign

08:10 – 11:00 am Housing deformation, shafts and bearings settings

11:15 – 12:00 pm Exercise: EPG and interface to GEMS

12:00 – 01:00 pm Lunch

Afternoon Session

### Differential Bevel Gears

01:00 – 02:15 pm Differential bevel gears: strength rating, webbings

02:30 – 03:30 pm Sizing of new designs for forged bevel gears

03:30 – 04:00 pm 3D models

04:00 – 05:00 pm Development of Coniflex Pro® summary in GEMS (trainer: Markus Bolze)

## Registration

Complete the online registration on the next page to reserve your training spot. Please include the name of the person/ persons attending and any special dietary considerations.

The class size will be limited to 20 and fills up fast.

**The deadline to register is February 16<sup>th</sup>, 2024.**

Follow this link for registration:

[www.gleason.com/en/academy/events/kisssoft-training-1](http://www.gleason.com/en/academy/events/kisssoft-training-1)

Or scan the qr-code on the right side:



## Receive Course Confirmation

All classes at The Gleason Works are taught in English. If trainees require an interpreter, one must be provided by them or arranged through their Gleason Sales Office or representative.

Attn: KISSsoft Software Training

Phone: (585) 370-4339

E-Mail: [khorton@gleason.com](mailto:khorton@gleason.com)

Cancellations must be made at least 10 days in advance of a class. If a cancellation is received after that day but before the start of a class, the student will be charged 50 percent.

## Recommended Hotel Provider

### Courtyard by Marriott Rochester Downtown

Address: 390 East Avenue  
Rochester, New York 14607

Rate: \$139 per night, plus tax (breakfast is not included, there is a bistro onsite).

Reservations call: 1-585-504-2750 (ask for the Gleason rate). You may also book online at [www.marriott.com/events/start.mi?id=1654885425013&key=CORP](http://www.marriott.com/events/start.mi?id=1654885425013&key=CORP). Book your corporate rate for Gleason (use Gleason discount code GL9). Kim Tanner is contact for Group blocks: [kimberly.tanner@marriott.com](mailto:kimberly.tanner@marriott.com)

Follow this link to the hotel website:  
[www.marriott.com/events/start.mi?id=1654885425013&key=CORP](http://www.marriott.com/events/start.mi?id=1654885425013&key=CORP)

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