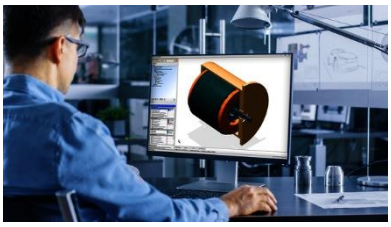

MACON
MOTION UNDER CONTROL

Motor Design Seminar

using Simcenter SPEED and Simcenter Motorsolve

Tuesday 21.03.2023	
08:30	**Welcome / Installation Software**
09:00 – 10:30	**Basic Theory** • electromagnetism / Lorentz force / law of induction • Different motor types • Sinewave and squarewave commutation • Basic principles of motor control • Simulation methods
	Coffee break
10:45 – 12:15	**Basic Theory** • electromagnetism / Lorentz force / law of induction • Different motor types • Sinewave and squarewave commutation • Basic principles of motor control • Simulation methods
	Lunch break
13:30 – 15:00	**Design PM BLDC Motor in Simcenter SPEED** • Theory of BLDC Motors • Motor sizing • Number of slots and poles • Winding schemes • Operating point / Torque-speed graph • Discussion of simulation results
	Coffee break
15:15 – 16:45	**Design PM BLDC Motor in Simcenter SPEED** • Theory of BLDC Motors • Motor sizing • Number of slots and poles • Winding schemes • Operating point / Torque-speed graph • Discussion of simulation results
	Coffee break
17:00 – 17:45	Open Discussion / User Cases
19:30	**Dinner**

Wednesday 22.03.2023	
08:30	**Welcome / Installation Software**
09:00 – 10:30	**Design PM Synchronous Motor in Simcenter Motorsolve** • Theory IPM Motors • Motor sizing • Number of slots and poles • Winding schemes • Torque/speed graph / field weakening / efficiency Map • Discussion of simulation results
	Coffee break
10:45 – 12:15	**Design PM Synchronous Motor in Simcenter Motorsolve** • Theory IPM Motors • Motor sizing • Number of slots and poles • Winding schemes • Torque/speed graph / field weakening / efficiency Map • Discussion of simulation results
	Lunch break
13:30 – 15:00	**Design of Induction Motor in Simcenter SPEED** • Theory Induction Motor • Motor sizing • Number of slots and bars • Winding schemes • Torque/speed graph / U/f control / efficiency map • Discussion of simulation results
	Coffee break
	Design of Induction Motor in Simcenter SPEED • Theory Induction Motor • Motor sizing • Number of slots and bars • Winding schemes • Torque/speed graph / U/f control / efficiency map • Discussion of simulation results
	Coffee break
17:00 – 17:45	Open Discussion

Trainers:

Johann Kott (MACCON)

Stephan Bichlmaier (MACCON)

Language:

English / German

When:

21.03.2023 – 22.03.2023

Where:

Aschauer Str. 28-32, 81549 Munich

Phone +49 (0) 89/651220-14

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www.maccon.de

Training fees:

1 day: 880,00 € plus VAT

2 days: 1350,00 € plus VAT

Included in the fees:

- Participation in the seminar
- Training slides
- Refreshments, lunch, social events

Accommodation is not included. However, we can book nearby hotels on request.

Registration:

Please register with Ms. Veronika Tertsch, Email: v.tertsch@maccon.de