



## TARGET GROUP

The MGCC certificate course is aimed at two target groups:



The first group are the skilled workers on the operation floor or in a factory environment who are directly involved in implementing Industry 4.0 projects,



while the second target group are technical specialists devising and planning Industry 4.0 projects

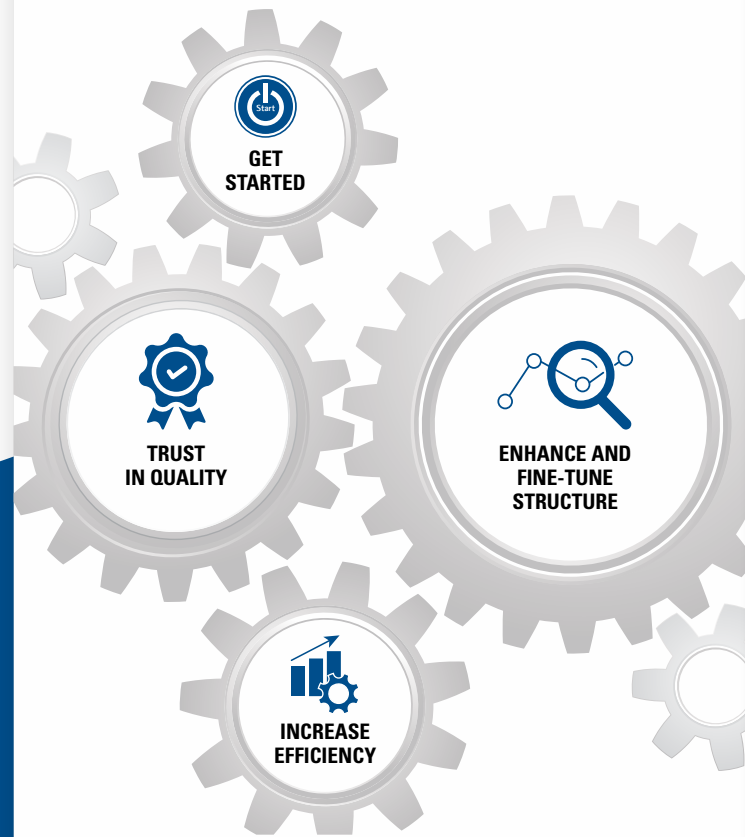


## COURSE OBJECTIVES

The MGCC standardised training programme provides specialists with the necessary skills to support devising, selecting and implementing methods and technologies for Industry 4.0 in workplace environments. Depending on their initial qualification and experience these specialists will be able to carry out and coordinate projects independently.

The course focuses on:

- Understanding the fundamentals of Industry 4.0
- Realising new opportunities for new business models by implementing Industry 4.0
- Understanding of the system topology and the entire process chain
- Specific Industry 4.0 applications and practical implementation examples from different production areas, ranging from manual workplaces to fully automated production and being able to transfer these examples into the own production
- Data security in the implementation of Industry 4.0
- Insight into future working methods in the digital world



## CONTACT

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MGCC Malaysia



German Dual Vocational Training



**GERMAN  
DUAL  
VOCATIONAL  
TRAINING®**

## INDUSTRY 4.0 SPECIALIST (MGCC)

Understanding, shaping and implementing the digital transformation in industry – agile – smart – networked –



**MGCC standardised Certificate Course**

In cooperation with:

**rexroth**  
A Bosch Company



Coordinated & certified by:



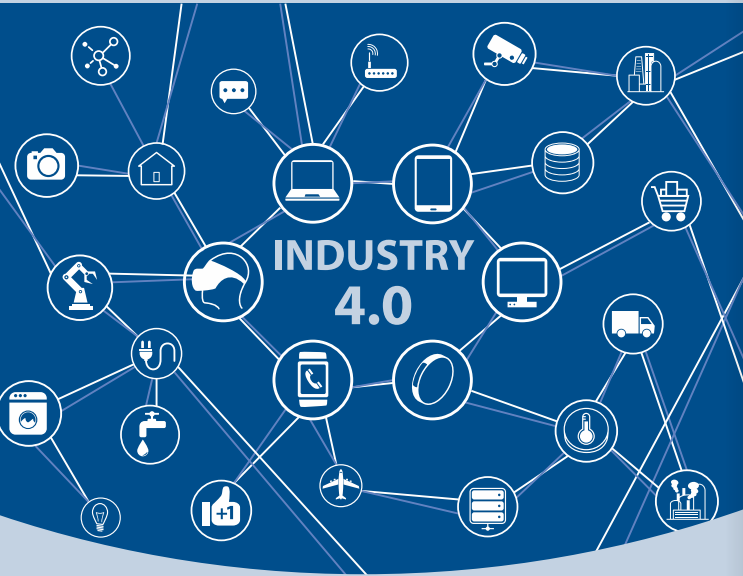
**AdA**  
Ausbildung der Ausbilder

**INDUSTRY 4.0  
SPECIALIST  
(MGCC)**

Malaysian-German Chamber of Commerce and Industry  
Deutsch-Malaysische Industrie- und Handelskammer

## THE BENEFITS OF THE TRAINING COURSE

# ... FOR COMPANIES AND PARTICIPANTS

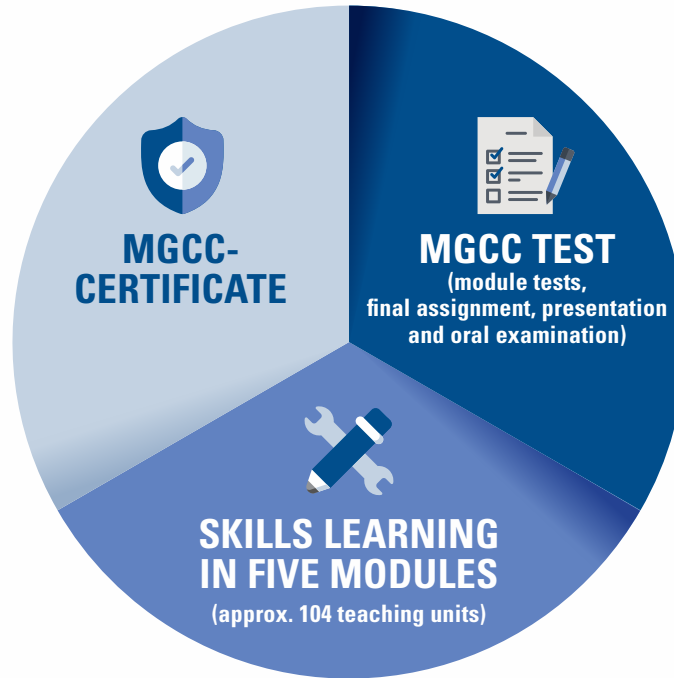


This further education training course will enable the certificate holders to identify the potentials of Industry 4.0 in their production and logistics departments and to develop specific proposals for implementation. Depending on their experience and qualification (e.g. working with different programming languages/managing projects), they will be able to implement/manage Industry 4.0 projects. The various subjects covered the Industry 4.0 Specialist course equip the participants with the skills they need to provide advice and to draw up Industry 4.0 proposals in many different areas of production. A task from their own company can be chosen for the final assignment. Participants gain extensive knowledge in the technologies and applications involved in implementing Industry 4.0 in production and logistics.

The further education programme "Industry 4.0 Specialist (MGCC)" was developed in Malaysia under the responsibility of the Malaysian-German Chamber of Commerce and Industry (MGCC), the Kedah Industrial Skills and Management Development Centre (KISMEC) and Bosch Rexroth Sdn. Bhd. in Shah Alam.

## THE TRAINING PROGRAMME






# INDUSTRY 4.0 SPECIALIST (MGCC)



The MGCC Certificate Course comprises five consecutive training modules with a total of 104 teaching units (TUs) which also includes the MGCC test.

We estimate that participants will need to invest 10-15% additional time for self-study and to prepare for the final module!

## THE MODULES AND SEMINARS

 <b>Module 1:</b> <b>UNDERSTANDING INDUSTRY 4.0</b>	<p style="text-align: right;"><b>(8 TUs)</b></p> <ul style="list-style-type: none"> <li>Basics of Industry 4.0</li> <li>Prerequisites for Industry 4.0</li> <li>Typical fields of application</li> <li>Industry 4.0 as an industrial revolution</li> <li>Trends in Industry 4.0</li> </ul>
 <b>Module 2:</b> <b>NETWORKED BUSINESS MODELS IN PRODUCTION AND LOGISTICS</b>	<p style="text-align: right;"><b>(36 TUs)</b></p> <ul style="list-style-type: none"> <li>Higher technologies</li> <li>Techn. Parameters for identification of components</li> <li>Business models</li> <li>Data transmission</li> <li>Supply chains and supply chain management</li> <li>Logistics and supply chain in a digital world</li> <li>Specific applications (use cases)</li> <li>Networking in the digital supply chain</li> </ul>
 <b>Module 3:</b> <b>TECHNOLOGIES FOR IMPLEMENTING INDUSTRY 4.0 – CYBER-PHYSICAL SYSTEMS</b>	<p style="text-align: right;"><b>(28 TUs)</b></p> <ul style="list-style-type: none"> <li>Cyber-physical systems</li> <li>Sensor, actuator and processor technology</li> <li>Data analysis, data sources</li> <li>Software applications</li> <li>Human-machine interface</li> </ul>
 <b>Module 4:</b> <b>DESIGNING WORK AND ORGANISATION ORGANISATIONAL CONSIDERATIONS IN THE AGE OF DIGITAL CHANGE</b>	<p style="text-align: right;"><b>(24 TUs)</b></p> <ul style="list-style-type: none"> <li>Humans-Technology-Organisation</li> <li>Digitalisation and the change of work</li> <li>Traditional versus agile working methods</li> <li>SCRUM</li> </ul>
 <b>Module 5:</b> <b>FINAL ASSIGNMENT, PRESENTATION AND ORAL EXAMINATION</b>	<p style="text-align: right;"><b>(8 TUs)</b></p>

**Total number of teaching units** **104 TUs**