



### **Virtual Half Day Course on “Driving Excellence: Quality Engineering in the Automotive Industry**

By Ir. Ts. Sukhairul Nizam Abdul Razak

IEM Council Member 2024/2025

On the brisk morning of October 28th, 2023, amidst the bustling corridors of automotive innovation, fifteen eager participants gathered for a virtual half-day course on "Driving Excellence: Quality Engineering in the Automotive Industry." Hosted from 9 am to 1 pm, the event was a beacon for those seeking to delve into the intricate world of automotive quality engineering. Conducted by Ir Ts Sukhairul Nizam Abdul Razak, an experienced professional from the Engineering Education Technical Division IEM, the session promised insights, strategies, and a roadmap to excellence in an industry driven by precision and innovation.

Quality engineering stands as the bedrock of automotive manufacturing, defining the line between mediocrity and excellence, reliability, and risk. As the participants settled into the ambiance of learning, the stage was set for an enriching journey through the nuances of quality engineering, tailored specifically for the automotive sector.

The course commenced with an exploration of the fundamental principles underpinning quality engineering. From statistical process control to failure mode and effects analysis (FMEA), participants delved into the methodologies designed to ensure precision, reliability, and safety in automotive manufacturing. Through interactive discussions and real-world case studies, the session adeptly illustrated the significance of these principles in mitigating risks and enhancing product quality.

As the session progressed, participants were immersed in a whirlwind of topics ranging from Six Sigma methodologies to lean manufacturing principles. The convergence of theory and practice provided a holistic understanding of the multifaceted approach required to achieve excellence in automotive engineering. Through simulations and hands-on exercises, participants honed their skills, embracing the essence of quality engineering as a dynamic and iterative process.

Central to the discourse was the pivotal role of continuous improvement in fostering a culture of excellence within automotive organizations. The significance of robust quality management systems was underscored, emphasizing the need for proactive identification and resolution of potential issues.

Through the lens of quality audits and process optimization, participants gleaned invaluable insights into the mechanisms driving operational efficiency and product excellence. The culmination of the half-day course was marked by a spirit of empowerment and enlightenment. Armed with newfound knowledge and perspectives, participants emerged as torchbearers of quality engineering, poised to navigate the evolving landscape of the automotive industry with confidence and competence.

The legacy of the course endures as a testament to the transformative power of education and collaboration. As participants dispersed, their minds brimming with inspiration and aspiration, the echoes of wisdom reverberated, igniting a fervent commitment to excellence in every facet of automotive engineering.

In retrospect, the half-day course on "Driving Excellence: Quality Engineering in the Automotive Industry" stands not merely as an event but as a catalyst for change, a catalyst that propels individuals and organizations towards a future defined by innovation, integrity, and above all, excellence.

**VIRTUAL HALF DAY COURSE ON**  
**DRIVING EXCELLENCE:**  
**QUALITY ENGINEERING IN THE**  
**AUTOMOTIVE INDUSTRY**

ORGANISED BY :  
 EDUCATION ENGINEERING TECHNICAL DIVISION, IEM

BEM APPROVED CPD : 4      REF. NO : IEM23/HQ/232/C (W)

**DATE : 22 JULY 2023, SATURDAY**

**TIME : 9.00AM - 1.00PM**

**ONLINE PLATFORM**

**SPEAKER :**  
**Ir. Ts. SUKHAIRUL NIZAM BIN ABDUL RAZAK**

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**CLOSING DATE:**  
**14 JULY 2023**

	<b>ONLINE</b> <small>(Log in for registration &amp; payment: www.myiem.org.my/member/login.aspx)</small>	<b>NORMAL FEE</b> <small>(by fax &amp; email) Payment by cash, credit card and bank-in</small>
IEM Student Member	40.00	50.00
IEM Graduate Member	75.00	90.00
IEM Corporate Member	125.00	150.00
Non-IEM Member	240.00	300.00

REGISTER ONLINE AT [WWW.MYIEM.ORG.MY](http://WWW.MYIEM.ORG.MY)

Poster of the Virtual Half Day Course on Driving Excellence: Quality Engineering in the Automotive Industry. The session postponed from 22<sup>nd</sup> July 2023 to 28<sup>th</sup> October 2023.