Understand the implications of GaN and SiC components and their industrial applications

Identify the opportunities offered by GaN and SiC

Understanding GaN and SiC technologies, their advantages in power electronics, and their applications across key industrial sectors.

OBJECTIVES

Understand the implications of GaN and SiC components, and discover the application sectors and key topologies that benefit from them.

TARGETED AUDIENCE

This training course is intended for decision-makers, project managers, engineering department heads, and application support technicians and engineers—as well as staff in engineering or R&D departments—who are responsible for specifying and designing circuit boards that incorporate power electronics.

PREREQUISITE

- Basic knowledge of electronics (use of capacitors and transistors)
- For distance learning, a PC equipped with a webcam, speakers, and a microphone, as well as an Internet connection, are required.

TRAINER (S)

Industrial and power engineer (senior), 25 years of experience, trainer

TEACHING RESOURCES

Videoconferencing tool / Course materials / Examples / Post-training follow-up

MONITORING AND SANCTIONS

Attendance sheets / Certificate of attendance

ASSESSMENT METHODS

Assessment of knowledge via a questionnaire before and after the training. Satisfaction survey at the end of the training course and 3 months later

DATES

2027 March 4th AM

VENUE

Online

DURATION

3.5h

FEES*

Base rate: €400

Member rate: €310 (Members of ASTEERICS consortium partner: Minalogic, Cap'tronic, Alpha RLH, Aktantis, Systematic Paris-Region, Smart Power, Images et Réseaux, CNFM)

** Free training for SMEs (as defined under European standards) and for public bodies that do not engage in economic activity.*

CONTACT

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TRAINING PROGRAM

GaN and SiC: understanding the technologies
9:00-12:30 AM

Round-table introductions

Power electronics in:

- Automotive,
- Heavy-duty vehicles,
- Aircraft,
- Solar and wind energy,
- Hydrogen,
- Defense,
- AI data centers,
- The role and significance of SiC (silicon carbide) and GaN (gallium nitride) in these sectors.

Examples:

- SiC for automotive traction (Tesla Model 3),
- Automotive on-board chargers (Tesla Cybertruck),
- GaN for aeronautical fuel cells (Axid).