**Course Content**

**Module 1 – How are Advanced Materials Different?**
The first module provides an overview of the course objectives and identifies several different types of advanced materials used during vehicle construction, including steels, aluminum, magnesium, and carbon fiber. The student will learn how these materials are affected during a collision and important damage analysis considerations.

**Module 2 – Materials, Application, and Repair Considerations**
The course continues with information on the characteristics of advanced materials along with specific applications, repair versus replace decisions, and the effect heat and straightening has on different materials.

**Module 3 – General Considerations**
The third module concludes the course by providing an explanation of damage analysis considerations and recycled parts considerations. Detailed information on joining methods, corrosion protection, and refinishing for advanced materials are also given in the third module.

**Recommendations**
This course covers a range of advanced materials that are found on many of today’s vehicles. It is recommended that students have an understanding of high-strength steel and aluminum, as well as damage analysis processes. Courses that are helpful include:
- Advanced High-Strength Steel Overview (AHS01/e)
- Aluminum Panels and Structures Damage Analysis (DAM05/e)

**Registration**
To register for Advanced Material Damage Analysis (DAM08), visit the I-CAR website at www.I-CAR.com or contact the I-CAR Customer Care team at 800-422-7872.