

## **Certifications Related to Solar Car Challenge Professional Development**

Below are the teaching certifications that can benefit from Solar Car Challenge professional development. These certifications are associated with courses that are taught within the following career clusters:

**STEM Cluster** - Renewable Energy & Engineering,

**Manufacturing Cluster** - Manufacturing Technology, Advanced Manufacturing Technology & Welding

**Transportation Cluster** – Automotive

### **Teaching Certifications**

Agricultural Science and Technology: Grades 6-12

Industrial Arts

Industrial Technology

Legacy Master Mathematics Teacher: Grades 8-12

Mathematics

Mathematics: Grades 7-12

Mathematics: Grades 8-12

Mathematics/Physical Science/Engineering: Grades 6-12

Mathematics/Physical Science/Engineering: Grades 8-12

Physics

Physics/Mathematics: Grades 7-12

Physics/Mathematics: Grades 8-12

Physical Science: Grades 6-12

Physical Science: Grades 8-12

Science

Science, Composite

Science: 7-12

Science: 8-12

Technology Education: Grades 6-12

Trade and Industrial Education: Grades 6-12

Trade and Industrial Education: Grades 8-12

Trade and Industrial Workforce Training: Grades 6-12.

## **Courses that can be associated with a Solar Car project**

Principles of Applied Engineering

Engineering Design & Presentation 1

Engineering Design & Presentation 2

Digital Electronics

Engineering Design & Problem Solving

Practicum in STEM

Scientific Research & Design

Foundations of Energy

Practicum in Energy

Introduction to Computer Aided Design

Automotive Basics

Advanced Transportation Systems Laboratory

Introduction to Renewable Energy

Energy & Natural Resources

Manufacturing Engineering Technology 1

Manufacturing Engineering Technology 2

Principles of Manufacturing

All Manufacturing and Welding

AC/DC Electronics

Solid State Electronics

Project-Based Research

Intermediate Computer Aided Design

Energy Power & Transportation



























