**Automotive Electrical, Engines & Diagnostics**

**Power Standards/Course Objectives:**

1. S - Safety

a. ATS1 Shop Safety

b. ATS2 Tool Equipment Safety

2. TM - Technical Math

a. TM1a Fractions

b. TM1b Measurements

c. TM1c Integers

d. TM1d Ratios

3. PE - Business, Management and Technology

a. PE1 Demonstrate ability to complete application

b. PE2 Demonstrate the ability to develop a resume

4. WE - Work Ethics and CTSO

a. WE1a Scoring Guide

b. WE2 Student organization participation

7. E- Electronics

a. ADE1 Diagnose general electrical system

b. ADE2 Diagnose Battery

c. ADE3 Diagnose starting system

d. ADE4 Diagnose charging system

e. ADE5 Diagnose lighting system

8. EP – Engine Performance

a. ATEP1 Diagnose general engine problems

b. ATEP2 Diagnose computerized engine controls

c. ATEP3 Diagnose ignition system

d. ATEP4 Diagnose fuel, air and exhaust systems

9. ED – Engine Diagnostics

a. ADED1 Engine Miss

b. ADED2 Engine Compression

c. ADED3 Engine Cam Valve Timing

d. ADED4 Engine Crankshaft