**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