



### Appendix 1 Requirements for the acceptance of Power Engineering Programs

1. College or Training Institute shall submit an application for acceptance of the program.
2. **The application must include at a minimum the following information;**
  - a) Program admission requirements;  
*(The applicants must meet or exceed Jurisdictional examination requirements to write the standardized examination)*
  - b) Attendance Policy;  
Academic classroom portion of the program is as per stipulated in the training institution attendance policy.  
Lab and field training requires a minimum of 200 hours attendance and successful completion in order to meet the jurisdictional experience requirements. (Exhibit “A”)
  - c) Instructor Information; Academic Instructors are as per the requirements of the educational institution.  
Power Lab Instructors must meet or exceed the jurisdictional requirements for the plant power rating and classification. (Exhibit “B”)
  - d) Listing of Program coordinators, Directors, Instructors, and signing authority for examination applications. An organizational chart must be included.
  - e) Complete listing of Reference and Course materials  
*(Summarize the information usually contained in the college calendar, listing courses by semester, to produce a list of course numbers, course names and hours per semester).*
  - f) Breakdown of classroom study, lab hours, and Field Training  
*(Hours for classroom, lab work and field training must equal or exceed the Jurisdictional requirement for certification at the appropriate level)*
  - g) Description of Power lab Facilities and including a copy of jurisdiction registration, and Plant layout Drawing. The floor plan diagram shall show the location of all pressure vessels and boilers and auxiliaries.  
Include a detailed description of the maximum allowable student to instructor ratio for lab training). **(Exhibit “C”)**
  - h) Power Engineer Advisory Committee Members  
(Listing of PEAC Members)
  - i) Graduation Requirements  
*Detailed outline of the Passing requirements and Attendance Requirements  
Indicate the mechanism that will be used to verify to the Jurisdiction that the student has completed the required practical experience and completion of all academics.*



3. An initial site visit and meeting with faculty
4. An annual audit of the program
5. The program **acceptance application** signed by representatives of the college or training institute and the local jurisdiction.
6. The accepted programs are posted on the SOPEEC website.

Exhibits;

A *Attendance Policy*

Full time one year 3rd Class program:

minimum 500 hours of power engineering related theory prescribed in the current SOPEEC 3rd Class syllabus, and a minimum of 200 hours training in 3rd Class qualified Power Lab and / or satisfactory operating experience as per the current jurisdiction power engineers regulation

Full time one year 4th class program:

Minimum 500 hours of power engineering related theory prescribed in the current SOPEEC 4th Class syllabus and 200 hours training in a 4th Class qualified Power Lab or satisfactory operating experience as per the current jurisdiction power engineer's regulation.

B *Instructor Information*

All instructors teaching core lab courses must have a Power Engineering Certification of the appropriate level for the Plant.

For a Third Class Plant (Lab) the Instructor must have a minimum of a Third Class Certification.

For a Fourth Class Training Plant (Lab) the Instructor must have a minimum of a Fourth Class Certification.

C *Power Lab Requirements*

For a power lab to be accepted to satisfy jurisdictional experience requirements, it must meet the following requirements:

- Power Boiler(s) with a Total Power Rating meeting the jurisdictional requirements for the certification level.



Note: For a Third Class certification, the Total Power plant rating shall be equal or greater than the Kilowatt rating as per the local Jurisdiction for a Third Class Boiler Plant.

For a Fourth Class Certification, the Power rating shall be equal or greater than the Kilowatt rating as per the local Jurisdiction for a Fourth Class Boiler Plant

- The Plant should consist of a minimum of two power boiler units, preferably one of a fire tube type and one of the water tube type connected to a common distribution header.
- An operational steam turbine complete with all associated equipment
- Two Boiler Feed Pumps, (one steam driven)
- Water treatment equipment
- Deaerator
- Internal Combustion engine and auxiliaries
- Refrigeration HVAC Lab and /or simulator.
- Lubrication Oil System
- Air Compression Equipment and auxiliaries
- Feed Water Heater and Exchanger
- Instrumentation and electrical equipment
- Optional Power Boiler plant Simulator panel
- Plant layout Drawing

*NOTE: This is the minimum requirement for SOPEEC acceptance of Power Engineering Programs, additional conditions for certification of a program may be required by the local jurisdiction. Please consult the jurisdiction before making an application for certification of a program.*

***In lieu of meeting above requirements auditable practical experience in an off-site boiler room meeting these requirements may be acceptable.***