

Keith Michael Jacobs

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Experience

AP1000 Certified Senior Nuclear Operations Training Instructor

Westinghouse Electric Company, Cranberry, PA

2017-Present

Senior Nuclear Operations Instructor with progressive experience on the AP1000 platform and a Senior Reactor Operator Certification.

- Served as a Technical expert on AP1000 operations during the Integrated System Validation retest for the US NRC to ensure all test scenarios were flawlessly executed.
- Authored updates to AP1000 general, emergency, and abnormal operating procedures and participated in procedure validation activities.
- Develop and prepare training lesson material (classroom and simulator) and teach classroom and simulator lessons following the Systematic Approach to Training for Licensed Operator Training, and Management Certification Courses.
- Demonstrated the AP1000 human to system interface in real-world and beyond-design basis conditions.
- Experienced in front of class teaching nuclear theory, plant operations, and various technical topics to adult engineers, nuclear operators, and technical experts.
- Perform project management activities to ensure individual projects were completed under budget.

Nuclear Electronics Technician Supervisor, Engineering Shift Supervisor, Quality Assurance Inspector

United States Navy, Groton, CT

2011-2017

Served as a Naval Nuclear Electronics Technician Supervisor for six years and qualified as Engineering Shift Supervisor, Reactor Operator, Quality Assurance Inspector, and Work Center Supervisor.

- Over four years of experience in operating a reactor plant during critical and shutdown conditions.
 - Guaranteed reactor safety during operations and was relied upon to take correct and prompt action in emergency situations.
- Supervised a nuclear propulsion plant and personnel in reactor operations, chemistry control, electrical distribution system operations, and engine room operations.
 - Ensured strict procedural compliance and directed in situ problem resolution in abnormal conditions.
- In the event of a severe accident, responsible to oversee and direct the efforts by the crew to follow the appropriate accident mitigation procedures to protect the fission product barriers, minimize the potential release of fission products to the public, quantifying the release of radioactive material, properly informing the local authorities to direct public action, and developing a long term plan for recovery.
- As a Quality Assurance Inspector of a naval nuclear power plant, personally verified all requirements from a rigid quality assurance standard were strictly adhered to include objective quality evidence documentation, system cleanliness, proper material use, training personnel on quality assurance responsibilities, and ensuring all necessary retests were properly completed.
- Planned, scheduled, performed, and supervised over 1,000 corrective/preventative maintenance operations on Reactor Instrumentation and Control Systems.
 - Utilized test equipment, schematics, and technical manuals to diagnose system malfunctions and devise unique solutions for each situation.

- Developed and approved over 200 technical work documents with meticulous reviews verifying exact technical specifications and system requirements were met to seamlessly complete complex technical evolutions including the complete overhaul of a Reactor Instrumentation and Control System, construction and installation of 3 neutron detectors, reactor plant radiography, and specialized troubleshooting and repair of the reactor rod control system.

Certifications

- AP1000 Senior Reactor Operator certification from Westinghouse Electric Company
- Reactor Operator certification from Naval Reactors and the Department of Energy
- Quality Assurance Inspector certification from the Department of the Navy
- Nuclear Electronics Technician certification from the Department of the Navy

Education

Westinghouse AP1000® Senior Reactor Operator Certification Course, Cranberry, PA

2017

Successfully completed the comprehensive, 18-week class covering general nuclear power plant fundamentals and AP1000 plant specific system operations and procedures in a formal classroom setting as well as simulated control room operations during normal and abnormal plant conditions.

Naval Nuclear Power Training Command/ Naval Prototype Training Unit (NPTU), Charleston, SC

2011-2013

Graduated with honors from the rigorous, fast-paced curriculum consisting of algebra, trigonometry, basic electricity, digital circuitry, electrical fundamentals, integrated circuits/electronics, heat transfer and fluid flow, thermodynamics, nuclear physics, chemistry, radiological controls, materials, reactor principles, reactor theory, mechanical fundamentals, hands on operations and written/oral examination on an operational pressurized water reactor plant.