I am requesting an interpretation of Section 4.1.2.3. of the 2006 California Edition of NFPA 25.

Does “These task shall be performed by personnel who have developed competence through training and experience” mean that the owner or someone they designate may perform the required quarterly and annual inspection, testing and maintenance of water-based fire protection system without having a C-16 license?

Yes. The owner or the owner’s qualified representative may conduct inspection identified in CCR Title 19 (NFPA 25) Table 5.1 “Summary of Sprinkler System Inspection, Testing and Maintenance”. However, Testing and Maintenance must be conducted a qualified State of California Contractors State Licensing Board Licensed Fire Protection Contractor (C-16) or a State Fire Marshal Licensed A (Type 1) concerns.