

Instructor Biographical Sketches

Charles W. Pratt, P.E.

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Background:

Mr. Pratt has been a practicing professional engineer for over 49 years in these technical areas and a design engineer in the commercial, industrial, military, and utility sectors since 1971. He was an instructor for the U.S. Army Corps of Engineers for 22 years in the subject area of power system protection and coordination and in the areas of substation and power system grounding, arc flash protection, lightning protection, cathodic protection, and airfield systems. His present company has been training engineers from commercial, industrial, utility, and generation in the area of power system protection and coordination since 2004. Course materials of the instructor have affected coordination concepts and understanding affecting national standards such as the NFPA, NEC, and NEMA. He was previously an engineer for the U.S. Air Force and U.S. Army Corps of Engineers.

He is founder, President, and principal engineer of Quadrelec Engineering Corporation in Tulsa, OK. His experience in the coordination of power systems and the associated studies spans industrial, utility, generation, hospital, IT, FAA, and critical military facilities. Prior to his professional career, he was trained by the Oklahoma Gas & Electric Company in the areas of overhead and underground system design and in large substation and protective relaying testing and commissioning. As a forensic engineer, he has had to testify as an expert witness in several court cases related to industrial and utility cases. At the present time, he has completed arc flash hazard or coordination studies at hundreds of sites including utility systems, commercial buildings, and large power generation plants. As a Life Member of the IEEE Power Engineering and Industrial Applications societies since 1976, he remains current all related topical areas covered by these societies. In the area of forensics, he has testified as an expert witness in the areas of equipment failures and power system protection and safety cases.

Professional Society Memberships

- IEEE Power Apparatus, Power Generation, Power Transmission, and Industrial Applications Societies since 1976, #07083348
- IEEE Electromagnetic Compatibility Society since 2000
- National Association of Corrosion Engineers (NACE) since 1979, #134548
- National Fire Protection Association (NFPA), member since 1995 of electrical section, #149999
- National Society of Professional Engineers since 1999, #104009961
- The American College of Forensic Examiners since 2008, #106704
- Member International Association of Electrical Inspectors (IAEI)
- Member of Lightning Protection Society for over 20 years