This study explored the perceptions Athletic Training Students’ harbored of the traits preceptors demonstrated at varied clinical sites. The traits examined in this study were nurturing, contemplative, consolidative, management, inspirational, and rigorous. These perceived traits of preceptors were then compared among Athletic Training Programs contrasting outcomes, based on Board of Certification examination pass rates. The study investigated whether there would be a significant difference in any of the trait characteristics for programs based on the spectrum of the pass-rates. This was a quantitative study in which data were collected via Preceptor Effectiveness Survey. Ultimately, the rigorous trait indicated a significant difference for BOC success. Overall, though not statistically significant, all of the traits were demonstrated more frequently in the higher pass-rate Athletic Training Programs. The study can offer evidence for effective preceptor traits in programs with successful Board of Certification (BOC) outcomes. This could be utilized to improve training, recruitment, hiring, establishing appropriate student-preceptor ratios to individual preceptors, and enhancing the overall student clinical experience.