**Introduction:**Patient safety is the cornerstone for better quality health care and nursing education. Also, there is evidence about how patient safety is addressed in healthcare professional curricula and how organizations develop safe practitioners is limited. **Aim:** assess the practices and perception of nursing students regarding the safety of critically ill patients. **Materials and Methods:** A descriptive design was followed in this study. The study was conducted in the critical care units affiliated to Alexandria Main University Hospital namely (Unit I, Unit III, and Triage unit). Tool I:Critical Care Practices of Safety Measures Observational Checklist. Tool II:Students' Unsafe Clinical Practices Perception Sheet. **Results:** The majority of nursing students had fair total practice score. Fifty three percent of nursing students had fair total perception .**Recommendation:** Nursing curriculum should incorporate concepts and principles that guide nursing students in developing caring, safe, competent and professional behavior and should be developed for the nursing students based on the WHO patient safety topics which will focus on patient safety.