This talk will be focused on the current situation and future challenges of teacher training in Spain. To this end, it will begin with a brief description of the structure of the Spanish education system, aiming to provide the necessary background. After that, we will explore the teacher training process in this country, paying special attention to the contents and structure of the syllabus in the different teaching-related university qualifications (Pre-primary, Primary, and Secondary Education Teaching). I will also explain the different ways to enter the profession after graduation, and we will review some of the main features of continuing training for in-service teachers. Lastly, the talk will address the challenges that teacher training faces, and it will also present the main lines of educational research that are currently being developed in the Spanish context.