

THE RELATIONSHIP BETWEEN BASIC FIELD QUALIFICATIONS - PROGRAM QUALIFICATIONS - THE QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY¹

Basic Field Qualifications (Engineering- Level 7)		PROGRAM QUALIFICATONS										Qualifications Framework for Higher Education in Turkey (Level 7)					
		1	2	3	4	5	6	7	8	9	10						
KNOWLEDGE	1. Reach expanded and in-depth information performing scientific research in engineering, evaluate, interpret and apply the information.	X												1. Based on the undergraduate studies qualifications, develop and deepen the knowledge acquired in the field as well as in other fields at the expert level.	KNOWLEDGE		
	2. Possess extensive knowledge of engineering techniques, methods, and their respective restrictions.		X		X									2. Understand the interdisciplinary interactions among associated fields.			
	3. Complete and apply information using scientific methods with limited or uncompleted data; integrate information from different disciplines.		X														
	4. Be aware of the new and developing applications; examine and learn them as required.								X								
SKILLS	1. Complete and apply information using scientific methods with limited or uncompleted data; integrate information from different disciplines.		X			X								1. Use the expert level theoretical and practical knowledge in the field.	SKILLS		
	2. Devise engineering problems, develop methods to solve them and apply technological advancements in these solutions.		X	X										2. Interpret and produce new information by integrating the knowledge acquired in the field with information generated in other fields.			
	3. Develop new and original ideas and methods, generate innovative solutions for the design of a system, a component, or a process.			X										3. Solve problems faced in the field using research methods.			
	4. Design and apply analytical model based research and experimental research; solve and interpret complex situations faced during this process.		X			X											
COMPETENCIES	Competence work independently and take responsibility	1. Show leadership in multi-discipline teams, develop solutions to complex situations and take responsibilities.					X							1. Conduct independent studies that require expertise in the field.	Competence work independently and take responsibility	COMPETENCIES	
		2. Reach expanded and in-depth information performing scientific research in engineering, evaluate, interpret and apply the information.	X X														2. Take leadership as an individual or as a team member towards solving practical problems and complex issues in the field.
		3. Complete and apply information using scientific methods with limited or uncompleted data; integrate information from different disciplines.		X				X									3. As the leader of the team, plan and direct the members of the project team for their Professional developments.

