

## NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY-PROGRAM COMPETENCES-BASIC FIELD COMPETENCES RELATIONSHIP <sup>1</sup>

Basic Field Competencies (Manufacturing and Processing)			PROGRAM COMPETENCES														National Qualifications Framework For Higher Education In Turkey (NQF- HETR, 5. Level, Associate Degree Education)			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14				
KNOWLEDGE	1-Math, science and these areas have sufficient knowledge about the implementation of the basic engineering sciences.		X	X	X				X				X					1. Possess theoretical and practical knowledge supported by textbooks with updated information, practice equipments and other resource on basic level based on qualifications gained at secondary education level.	KNOWLEDGE	
	2-Has the basic concepts related to basic engineering departments.			X	X		X		X											
SKILLS	1-Understands basic engineering perspective and solution to engineering problems identified in the field makes with.			X	X	X	X		X		X			X				1. Gain the skills to use basic level theoretical and practical knowledge acquired within the field in the same field of a higher education level or in a field of same level.  2. Interpret and evaluate data, define problems, do analysis, produce solutions based on proof with using basic level knowledge and practices gained within the field.	SKILLS	
	2-A modern technical equipment and tools necessary for engineering practice by studying additional technical uses.			X	X	X	X		X		X		X							
	3-Makes technical drawings.		X	X	X															
	4-Algorithmic thinking.			X	X		X													
	5-Conduct experiments to study engineering problems, data collection, based on the presentation and interpretation of data collected makes.			X	X		X		X		X					X				
COMPETENCES	Bağımsız alıştırma ve Sorumluluk Alıştırma Yetkinliği			X			X	X								X		1. Conduct studies at basic level within the field independently 2. Take responsibility as a team member in order to solve unexpected complex problems faced in the implementations within the field. 3. Conduct activities towards the development of subordinates within a project.	Competence to Work Independently and	COMPETENCES
				X		X								X	X					
							X								X	X				

## NATIONAL QUALIFICATIONS FRAMEWORK FOR HIGHER EDUCATION IN TURKEY-PROGRAM COMPETENCES-BASIC FIELD COMPETENCES RELATIONSHIP (Continue)

Basic Field Competencies (Manufacturing and Processing)			PROGRAM COMPETENCES														National Qualifications Framework For Higher Education In Turkey (NQF-HETR, 5. Level, Associate Degree Education)		
COMPETENCES	Learning Competence		1	2	3	4	5	6	7	8	9	10	11	12	13	14		Learning Competence	COMPETENCES
COMPETENCES	Learning Competence	1-Aware of the need for lifelong learning is monitoring developments in the field of vocational and academic shows, constantly renews itself.				X	X	X	X	X	X		X				1. Evaluate the acquired knowledge and skills at basic level within the field with a critical approach, determine and respond to learning needs.		COMPETENCES
		2-A modern technical equipment and tools necessary for engineering practice by studying additional technical uses.		X	X				X	X			X				2. Direct the education received to a higher education level in the same field or to an occupation in the same level.		
			X							X							3. Gain awareness of lifelong learning.		
COMPETENCES	Communication and Social Competence	1-Area required by the European Computer User License Key Level at least in conjunction with computer software uses information and communication technologies.						X				X					1. Transfer the ideas based on the basic knowledge and skills acquired within the field through written and oral communication.		COMPETENCES
		2-Communicates using the technical drawings.					X	X		X							2. Share the ideas and solution proposals to problems about issues within the field with professionals and non-professionals.		
		3-At least one foreign language in the field using the European Language Portfolio A2 Level General monitors information and communicate with colleagues.						X				X					3. Monitor the developments in the field and communicate with peers by using a foreign language at least at a level of European Language Portfolio A2 General Level.		
				X					X								4. Use informatics and communication technologies with at least a minimum level of European Computer Driving License Basic Level software knowledge.		
COMPETENCES	Field Specific Competence	1-Awareness about the observance of Professional ethics in engineering applications has.					X	X	X					X	X	X	1. Possess social, scientific, cultural and ethic values on the stages of gathering, implementation and release of the results of data related to the field.		COMPETENCES
														X	X	X	2. Possess sufficient consciousness about the issues of universality of social rights, social justice, quality, cultural values and also, environmental protection, worker's health and security.		