



Europass certificate supplement

Forester



Europass certificate supplement^(*)



1. Title of the certificate (hr) ⁽¹⁾

Šumar
(110203)

⁽¹⁾ In the original language

2. Translated title of the certificate (en) ⁽¹⁾

Forester

⁽¹⁾ If applicable. This translation has no legal status.

3. Profile of skills and competences

General education and vocational competences:

- Use the basic communication knowledge and skills in different communication situations, to use the verbal and written standard Croatian language in an adequate manner.
- Communicate adequately with other persons at work, to keep business records, to use previously agreed visual and verbal communication at the site.
- Cooperate and communicate within the team and to use the basic verbal business communication, to use communication devices and equipment in the working process.
- Communicate in usual life situations about the well-known topics and activities, to describe the environment in simple language.
- Apply the essential socio-cultural knowledge about other countries and languages acquired through language activities, to accept tolerant communication with members of other cultures.
- Understand the natural world principles and the relationship between the technology and the work area.
- Apply properly basic chemical and biological knowledge in everyday life within the preservation of nature richness and nature balance.
- Show responsibility towards nature and environment, to apply the concept of sustainable development in the exploitation of natural resources at local and national level.
- Use the modern information technology in different professional situations, to solve basic problems in the area of occupation independently and as a part of a team.
- Plan, organize and manage independently own learning and work.
- Act in accordance with citizenship and national education, to respect the principles of social coexistence, pluralism and democracy.
- Apply the principles of professional ethics and to perform the assumed tasks in a responsible way.
- Recognise risks and hazards in different professional situations, to assess these risks and hazards.
- Practice permanently adequate physical exercises as part of culture of life, improvement of health and prevention of occupational diseases.

- Recognise the importance of forest and tree as resources in the Croatian economy.
- Fell the tree using different techniques.
- Apply the procedures of work on felled tree.
- Measure length and medium diameter of assortment.
- Mark the produced timber assortment.
- Handle the equipment for skidding in a safe manner.
- Handle the equipment for standing trees in a safe manner.
- Maintain the equipment.
- Notice defects on trunk.
- Execute the works which ensure general useful functions of forest.
- Recognise commercial species of trees according to habit and bark.
- Describe the needs of commercial species of trees for light, moisture and heat.
- Foster seedling, sapling and young tree.
- Sow forest seeds (on works of afforestation, regeneration, supplementation and recovery of forest stands).
- Plant forest seedlings (on works of afforestation, regeneration, supplementation and recovery of forest stands).
- Collect seeds and fruits on soil and in tree tops.
- Prepare the soil for seeding and planting.
- Operate machinery and devices in nursery production in a safe manner.
- Erect fences as protection against wildlife.
- Recognise the main species of wildlife.
- Execute the works on maintenance and construction of forest facilities.
- Describe the performance of motor saw.
- Describe the main parts of tractor.
- Keep various records (forest material, forest products etc).
- Comply with safety at work measures.
- Carry out vegetative propagation.

4. Range of occupations accessible to the holder of the certificate ⁽¹⁾

For acquiring the certificate of higher level and for performing jobs of higher level of complexity, the education for forestry technician, nature protection technician, agricultural technician for horticulture, phytopharmacist and similar is needed.

⁽¹⁾ If applicable.

(*) Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any legal status in itself. the format of the description is based on the following texts: Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications, Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for pupils, students, persons undergoing training, volunteers, teachers and trainers.

More information available at <http://europass.cedefop.europa.eu>.

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5. Legal basis of awarding the certificate

Name and status of the body awarding the certificate Forestry and Carpenter School in Karlovac Vatrogasna cesta 5 47 000 Karlovac The secondary educational institution is included in the secondary education system of the Republic of Croatia.	Name of national authority providing accreditation/recognition of the certificate Ministry of Science and Education Donje Svetice 38 10000 Zagreb www.mzos.hr
Level of the qualifications Level 4.1 in the Croatian Qualifications Framework	National grading system Excellent 5 (10) A Very good 4 (9) B Good 3 (8) B Sufficient 2 (6-7) C Insufficient 1 (0-5) F *In order to pass, it is necessary to get passing grade 2 (6-7) C (sufficient).
Access to next level of education/training The opportunity to continue education for higher qualifications at level 4.2 and in institutions of higher education and to acquire permanent professional training.	
Legal basis The Law on Education in Primary and Secondary Schools (Official Gazette No. 87/2008, 86/2009, 92/2010, 105/2010-corr., 90/2011, 16/2012, 86/2012, 94/2013 and 152/14) Vocational Education Act (Official Gazette No. 30/2009) The Croatian Qualifications Framework Act (Official Gazette No. 22/2013) Forestry and Carpenter School in Karlovac (forester) The Decision of the Ministry of Science, Education and Sports on enacting the experimental curriculum for acquiring a vocational certificate for "forester" (CLASS: UP/I-602-03/13-05/00082; FILE NO.: 533-21-13-0003 of 27 May 2013)	

6. General data of acquiring the certificate

	Percentage of total programme (%)	Total number of hours for three years of education
General education part	45,19%	1475
Vocational - theoretical part	21,6%	705
Special vocational part - exercises and practical teaching in school and at workplace	33,21%	1084
Duration of the education		3 years
Entry requirements The requirement for the certificate for forester is the completion of primary education.		

7. Additional information

Curriculum for the certificate forester

CURRICULUM FORESTER

A. GENERAL EDUCATION PART																		
MODULE	COURSES	The number of hours (yearly and weekly - theory, exercises and practical teaching) and the number of credit points																
		1st year					2nd year					3rd year						
		yearly	weekly			credit points	yearly	weekly			credit points	yearly	weekly			credit points		
T	E		PT	T	E			PT	T	E			PT					
GENERAL EDUCATION MODULE	CROATIAN	105	3			6	105	3			6	96	3			6		
	FOREIGN LANGUAGE	70	2			3	70	2			3	64	2			3		
	HISTORY	70	1			2,5	35	1			2,5							
	RELIGION / ETHICS	35	1			2,5	35	1			2,5	32	1			2,5		
	GEOGRAPHY	35	1			2,5	70	2			4,5							
	PHYSICAL AND HEALTH EDUCATION	70	2			2	70	2			2	64	2			2		
	MATHEMATICS	70	2			5	70	2			4	64	2			4		
	POLITICS AND ECONOMY						70	2			4							
	COMPUTING	70	2			3												
CHEMISTRY	70	2			3,5													
BIOLOGY	70	2			4													
TOTAL HOURS / CREDITS A.		630	18			34	525	15			28,5	320	10			17,5		
PORTION OF GENERAL EDUCATION COURSES / CREDITS IN TOTAL FUND %		56,25%			56,67%			46,88%			47,50%			31,25%			29,17%	

B. SPECIAL VOCATIONAL PART																		
B1. MANDATORY VOCATIONAL MODULES	COURSES	The number of hours (yearly and weekly - theory, exercises and practical teaching) and the number of credit points																
		1st year					2nd year					3rd year						
		yearly	weekly			credit points	yearly	weekly			credit points	yearly	weekly			credit points		
T	E		PT	T	E			PT	T	E			PT					
FOREST EXPLOITATION	FOREST EXPLOITATION						70	1	1		4	64	2			4		
DENDROLOGY	ESSENTIALS OF DENDROLOGY	70	1	1		4,5												
ECOLOGY	FOREST ECOLOGY	35	1			2,5												
SILVICULTURE	SILVICULTURE	70	1	1		4,5	70	1	1		4	32	1			2		
MEASURING INSTRUMENTS AND TOOLS	MEASURING INSTRUMENTS AND TOOLS	70	1	1		4												
FOREST PROTECTION	FOREST PROTECTION											32	1			2		
HUNTING	HUNTING						70	1	1		4,5							
FOREST CIVIL ENGINEERING	FOREST CIVIL ENGINEERING											32	1			2		
WORKING MACHINERY AND TOOLS	WORKING MACHINERY AND TOOLS						70	1	1		4	64	1	1		4		
ECONOMICS AND MARKETING	ECONOMICS AND MARKETING											32	1			2		
BUSINESS COMMUNICATIONS	BUSINESS COMMUNICATIONS											32	1			2		
PROTECTION AT WORK	PROTECTION AT WORK	35	1			2												
PRACTICAL TEACHING	PRACTICAL TEACHING	140			4	5	245			7	11,5	320			10	14		
TOTAL HOURS / CREDITS B1.		420	5	3	4	22,5	525	4	4	7	28	608	8	1	10	32		
PORTION OF MANDATORY VOCATIONAL COURSES / CREDITS IN TOTAL FUND %		37,50%			37,50%			46,88%			46,67%			59,38%			53,33%	

B2. ELECTIVE VOCATIONAL MODULES	COURSES	The number of hours (yearly and weekly - theory, exercises and practical teaching) and the number of credit points																		
		1st year					2nd year					3rd year								
		yearly	weekly			credit points	yearly	weekly			credit points	yearly	weekly			credit points				
T	V	PN	T	V	PN		T	V	PN											
APPLIED INFORMATICS	APPLIED INFORMATICS						70	1	1		3,5									
ECOLOGY AND ENVIRONMENTAL PROTECTION	ECOLOGY AND ENVIRONMENTAL PROTECTION	70	1	1		3,5														
MEDICINAL PLANTS AND MUSHROOMS	MEDICINAL PLANTS AND MUSHROOMS											96	1	2		7				
PARK CULTURE	PARK CULTURE											96	2	1		7				
ESSENTIALS OF ORNITHOLOGY	ESSENTIALS OF ORNITHOLOGY						70	1	1		3,5									
BOTANY	BOTANY	70	1	1		3,5														
TOTAL HOURS / CREDITS B2.		70	1	1		3,5	70	1	1		3,5	96	2	1		7				
PORTION OF ELECTIVE VOCATIONAL COURSES / CREDITS IN TOTAL FUND %		6,25%					6,25%					9,38%					11,67%			
TOTAL HOURS / CREDITS B1. + B2.		490	6	4	4	28	595	5	5	7	31,5	704	10	2	10	39				
PORTION OF VOCATIONAL COURSES / CREDITS IN TOTAL FUND %		43,75%					53,33%					52,50%					68,75%		65,00%	
C. FINAL WORK																				
TOTAL CREDITS C.																3,5				
TOTAL HOURS /CREDITS A + B+ C		1120	24	4	4	80	1120	20	5	7	60	1024	20	2	10	60				

More information (including a description of the national qualifications system) available at:

- Ministry of Science and Education (www.mzos.hr),
- Agency for Vocational Education and Adult Education (www.asoo.hr),
- National Europass Centre Croatia (www.europass.hr).

In Karlovac, November 2016