



DIPLOMA STATEMENT

MASTER

The purpose of the statement is to provide sufficient independent data to improve international transparency and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies pursued and successfully completed by the individual named on the original qualification to which this statement is appended. It should be free of any value judgements, statements of equivalence or suggestions for recognition. Information should be provided in all seven sections. Where information is not provided, an explanation should be given as to why.

1. Information identifying the holder of the qualification

This Diploma Statement is an integral part of the original Erasmus Mundus Minerals and Environmental Programme consortium, hereinafter called 'EMMEP', Master's degree that has been awarded to the following individual:

Family name(s):	Camargo Niño
Given name(s):	Fredy Alfonso
Date of birth:	02-02-1981
Place and country of birth:	Tunja, Colombia
Student identification number:	4260678

2. Information identifying the qualification

Erasmus Mundus Minerals and Environmental Programme (EMMEP)

- Mining Engineering (EMMEP-EMC)

2.1 Name of the qualification

Master of Science (MSc-)

2.2 Main field(s) of study for the qualification

MSc programme in: Mining Engineering (EMMEP-EMC)

2.3 Institution awarding the qualification

Name: Technische Universiteit Delft (Delft University of Technology)
Status: Public University, recognised by the Dutch government
Type: University of Research and Professional Education

Name: Aalto yliopisto (Aalto University)
Status: Public University, recognised by the Finnish government
Type: University of Research and Professional Education

2.4 Other partner institutions where courses were taken

Name: University of Exeter
Status: Public University, recognised by the UK government
Type: University of Research and Professional Education

Name: Rheinisch-Westfälische Technische Hochschule (RWTH Aachen University)
Status: Public University, recognised by the German government
Type: University of Research and Professional Education

2.5 Language(s) of instruction and examination

English

3. Information on the level of the qualification

3.1 Level of qualification

University graduate

3.2 Official length of the programme

The official length of the degree course is 2 years (full time). The official study load is minimum 60 ECTS credits per study year and minimum 120 ECTS credits in total.

3.3 Access requirements

The applicant to the Erasmus Mundus Minerals and Environmental Programme (EMMEP) is in possession of a relevant Bachelor's degree and is admitted to the programme in accordance with Erasmus Mundus selection criteria and by decision of the EMMEP governing Board.

4. Information on the contents and results gained

4.1 Access requirements

Full-time

4.2 Master's degree course objectives

The objectives of the Master's degree course in Mining Engineering (EMMEP-EMC) are:

To provide an advanced education in the field of Mining Engineering; students specialize in selected fields offered by the overall program and by each member of the EMMEP consortium.

Exit qualifications of the Master's programme

The final Master's degree requirement details the qualifications, areas of competence and skills of students who have successfully completed the programme. The final requirements have been formulated in accordance with national and quality principles.

4.3 Programme details and the individual grades/marks/credits obtained

The following list includes all the degree course subjects studied by the owner of this degree certificate. An indication is given of the number of ECTS credits awarded for each subject and of the final mark obtained for the subject in question. This list may only be viewed as authentic if the Program Director has initialled it at the bottom in blue ink.

Course	Credits (ECTS)	Date	Mark
Environmental Issues	3,0	8-2-2013	C
Mine Ventilation	6,0	8-2-2013	B
Foundation and Deep Excavations	4,0	5-11-2013	B
Open Pit Mining	6,0	8-2-2014	C
Geo Risk Management	3,0	29-1-2014	A
Climate Change: Science & Ethics	4,0	22-1-2014	E
Trending Topics in Geo-Engineering	4,0	22-10-2013	B
Bored and Immersed Tunneling	4,0	13-11-2013	B
Trenchless Technologies	4,0	28-1-2014	A
Alluvial Mining and Marine Mining	5,0	29-5-2013	A
Case Study	6,0	29-5-2013	B
Industrial Minerals	2,0	29-5-2013	B
Mineral Economics	2,0	29-5-2013	B
Surface Excavation Design	7,5	12-4-2013	B
Project Management, Finance and Appraisal	7,5	12-4-2013	A
Applied Rock Mech. for Hard Rock Mining	3,0	5-10-2012	B
Excursion	3,0	23-10-2012	V
Automation & Maintenance of Mining Eq	3,0	22-10-2012	B
Mining Technology and Economics	3,0	19-9-2012	C
Numerical Mine Modelling	3,0	19-10-2012	B
Introduction to Offshore Engineering	3,0	28-10-2013	B
Dredging Processes I	4,0	31-1-2014	B
Technical Writing	2,0	2-2-2014	B
Directed Studies in English (o/w) oral skills	1,0	14-4-2014	V
Postgraduate studies. New Austrian Tunneling Method and Observational Method (L)	1,0	05-4-2014	V
Graduation Thesis EMMEP incl. Colloquium	30,0	25-8-2014	B
Total	124		
<i>The initials of the Program director:</i>			



'V' or 'V' instead of a mark indicates that the student fulfilled the requirements for this particular course.
 'Vr' or 'Vrs' instead of a mark indicates that the student was exempted from this particular course.

4.4 Grading scheme

Dutch grading scale

The Dutch grading scale, implemented from primary school through to university level, goes from 1 (very poor) to 10 (outstanding). At TU Delft final marks are rounded off to whole and half figures. A 6.0 is a pass. Though the scale ranges from 1.0 to 10.0, the marks 9.0 and 9.5 are not frequently given and 10s are extremely rare.

Sometimes a 'V' is awarded instead of a mark to indicate that the requirements for a particular subject have been fulfilled. 'VR' instead of a mark indicates that a student has been exempted from an examination or practical exercise. The board of examiners may decide to exempt students from an examination or practical on the grounds of a previous examination, degree audit or practical completed within the higher education system which, as regards content and study load, corresponds with the subject for which exemption is sought, or on the grounds of knowledge and/or skills acquired outside the higher education system.

The ECTS grading system for credit transfer

In cases where there is a need for country to country credit transfer (mainly in conjunction with student exchanges) ECTS *grades* can be used. It is good practice to award an ECTS grade, particularly if credit transfer is later required. The ECTS grading system is based on the relative distribution of the results of the students who have passed an interim examination. Grades are assigned among students with a *pass* as follows:

Grade	Relative distribution
A	Best 10 %
B	Next 25 %
C	Next 30 %
D	Next 25 %
E	Next 10 %
FX/F	Fail

A distinction is made between the grades *FX* and *F* which are given to unsuccessful students. *FX* means that in order to pass more work is required and *F* means that considerable further work is required.

The grading system for this program

The three above mentioned university grading systems are absolute systems, while the ECTS grading system is relative. To harmonize the grades that were given in the three respective universities, here the ECTS grades have been used according to the following table, where the underlined marks are included in the bound:

Delft	UK	Miskolc	Wroclaw	ECTS	Definition
8,5-10	80-100%	5 >85%	5 – 5,5	A	Excellent
7,5-8,4	70-79%	4 75-84%	4,5	B	Very good
6,6-7,4	62-69%	3 63-74%	4	C	Good
6,1-6,5	56-61%	2 57-62%	3,5	D	Satisfactory
6,0	50-55%	2 50-56%	3	E	Sufficient
4,0-5,9	40-49%		2	FX	Fail (some work needed)
0,0-3,9	<40%	1 <50%	<2	F	Fail (consid. more work needed)

4.5 Overall classification of the qualification

Master's examination

The Master's examination is an integral part of the Master's degree course involving a complete study load of 120 ECTS credits. The Master's degree course is rounded off with a thesis project. This thesis project serves to prove that the student has a good command of, and is able to apply, all the knowledge and skills gained during the Master's phase.

Title Thesis project: "Analysis of alternatives for primary crushing and conveying at the Siilinjärvi open pit mine".

5. Information on the function of the qualification

5.1 Access to further study and the labour market

Students who have the Erasmus Mundus Minerals and Environmental Programme Master of Science are eligible to follow PhD research programmes.

5.2 Professional status

Students who have successfully completed the Erasmus Mundus Minerals and Environmental Programme and who are now rewarded the Master of Science title in the field of Mining Engineering are entitled to be employed as engineers and require no further certification.

6. Additional information

6.1 Additional information on the degree course

Erasmus Mundus MSc programmes are a cooperation and mobility programme in the field of higher education, promoting Europe as a centre of excellence in learning. The European Commission supports top-quality programmes, enhancing the visibility and attractiveness of European higher education and providing EU funded scholarships to students and scholars who participate in the Erasmus Mundus MSc programmes.

The Erasmus Mundus Minerals and Environmental Programme (EMMEP) MSc. is an integrated degree course organized by four partner universities in 4 European countries (See section 6.2).

The objective of the programme is to provide top-quality multidisciplinary education in Mining Engineering. The programme provides a broad European education that is relevant in topics of mining engineering across the world.

6.2 Erasmus Mundus Minerals and Environmental Programme consortium information

TU Delft – Delft University of Technology
Faculty of Civil Engineering
Stevinweg 1
2600 GA Delft
The Netherlands
www.tudelft.nl

RWTH Aachen
Institut für Bergbaukunde I
Wullnerstrasse 2
D-52056 Aachen
Germany
www.rwth-aachen.de

University of Exeter
Camborne School of Mines
Treliever Road
TR10 9EZ Penryn
Cornwall, United Kingdom
<http://emps.exeter.ac.uk/csm/>

Aalto University, Helsinki
Lab. of Rock Engineering
P.O. Box 6200
02015 HUT
Finland
<http://www.tkk.fi/en/>

7. Certification of the Statement

Place and date: Delft, July 31, 2014

Name: J.J. de Ruiter

Signature:



Position: Program Director

Official stamp:

