

DIPLOMA SUPPLEMENT

"This diploma supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the 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 that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why. (Source: European Commission, Council of Europe and UNESCO)."

The Lyon School of Chemistry Physics and Electronics (CPE Lyon) prepares and trains scientists/engineers in three specialities: **Chemistry-Process Engineering (CGP)**, **Electronics-Telecommunications-Computer Science (ETI)** and **Computer Science and Communication Networks (IRC)**. The latter speciality takes place via a block release system of studies alternating between school and company.

This diploma supplement applies specifically to education in the "IRC" speciality.

1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1.1 Surname: [REDACTED]
- 1.2 First name(s): [REDACTED]
- 1.3 Date of birth: [REDACTED]
- 1.4 Student identification number: [REDACTED]

2 INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Name of qualification

Titre d'ingénieur diplômé de l'Ecole Supérieure de Chimie Physique Electronique de Lyon, CPE Lyon, Spécialité Informatique et Réseaux de Communication, en partenariat avec l'Institut des Techniques d'Ingénieur de l'Industrie de Lyon, titre d'ingénieur conférant le grade de Master « Master's Degree ».

2.2 Main fields of study for the qualification

- Fundamental fields of the common core:
Informatics, communications networks, electronics, signal processing, mathematics, human, economic and social sciences, languages.
- Choice of semi-optional courses in year 5 (choice to be made from a list proposed by the School).

2.3 Name and status of awarding institution (in original language)

Ecole Supérieure de Chimie Physique Electronique de Lyon (CPE Lyon)

Domaine scientifique de la Doua

43, boulevard du 11 novembre 1918 - BP 82077 - 69616 Villeurbanne cedex, France.

Private engineering school having the status of an Association, recognised by the State, education accredited by the Commission des Titres d'Ingénieur.

2.4 Name and status of institution administering the studies

CPE Lyon has the pedagogic responsibility for the programme, and ensures the coherence of the teaching and learning.

CPE Lyon coordinates and provides the scientific courses (as from the second semester of the third year of the engineer cycle, see Section 3.2) and the English language courses.

The AFPI rhodanienne (the Association for Professional Education of Industry) coordinates and provides the human, economic and social sciences courses.

The IUT B (University Institute of Technology) of the Claude Bernard Lyon 1 University coordinates and provides:

- For students in continuing education: courses to prepare the students to integrate the engineer programme (see Section 3.2).
- For students with the status of apprentice: courses to bring the knowledge of the students to the same level (in mathematics, electricity and algorithms) which take place during the first semester of the third year of the engineer cycle (semester 5, see Section 3.2).

2.5 Language of instruction/examination

French and English (see Section 6.1).

3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Level of qualification

Five (5) years of higher education after the baccalaureat (end of higher secondary school) leading to the award of the diplôme d'ingénieur and the level of master, with a minimum of 300 ECTS credits (see Section 8).

3.2 Official length of programme

The total length of studies for the award of the diploma is five (5) years (10 semesters):

- Short programme at university: four (4) semesters of education leading to the DUT (University Diploma of Technology) or to the BTS (Vocational training certificate for advanced technicians).
- Engineer programme: alternating education School/Company.

The length of the programme of studies at CPE Lyon is six (6) semesters for students having the status of apprentices and five (5) semesters for students in continuing education. In this latter case, the five (5) semesters are preceded by a specific period of preparation for integrating the engineer cycle.

3.3 Access requirements to the year 3 of the programme

CPE Lyon recruits into the engineer programme (semester 5) of the IRC stream in several ways:

- For students with the status of apprentice: the holders of a DUT or a BTS and having signed an apprentice contract. Admission is granted after a very selective procedure based on several criteria: pre-selection on the basis of academic performance followed by an interview to determine personality and motivation, evaluation of the level and the potential in languages. Approximately 25% of the candidates are admitted at the end of this procedure.
- For students in continuing education: the holders of a DUT or a BTS and having three (3) years of professional experience. The candidates are selected on the basis of their academic results obtained during the preparation period for integration in the engineer programme.

4 INFORMATION ON THE CONTENTS AND THE RESULTS GAINED

4.1 Mode of study

The study takes place by alternating the studies between School and Industry and consists of:

- For students with the status of apprentice: six (6) semesters alternating between School and Industry providing:

- 1800 contact hours (academic education), and
 - 2800 hours of training in industry.
- For students in continuing education: five (5) semesters alternating between School and Industry providing:
 - 1200 contact hours (academic education), and
 - 2400 hours of training in industry.
 These students join the engineer cycle in the second semester of the year 3 (semester 6) after a specific period of preparation.
- All students carry out one project per year in industry.

4.2 Programme requirements

4.2.1 Organisation of the engineer programme

- In the framework of the European Higher Education Area, CPE Lyon has established a semester system and an evaluation based on credit accumulation, called ECTS credits.
- The study programme has a modular structure based on main themes (see Section 2.2). Each module is of 3, 6 or 9 ECTS credits.
- A module corresponds to a mixture of lectures, tutorials, practical work, project work, personal study and e-learning. The distribution and the evaluation of the pedagogic activities are adapted according to the learning outcomes of each module. A module of 3 ECTS credits represents about 75 to 80 hours of work, including personal study.
- In addition to these academic periods, the students must carry out one project per year in industry. Between year 4 and year 5, the apprentices must undertake a mission of at least two months abroad.

4.2.2 Acquired competences

The strong point of this education programme is the combination of an industrial apprenticeship and an academic education of a high level, throughout the study period.

- A wide ranging scientific knowledge giving the ability to:
 - Model, devise, develop and optimise software systems, assuring their security, their integrity, their profitability and their sustainability.
 - Model and devise the architecture of data and telecommunications networks and the capacity to size, to interconnect, to administer, to make secure and develop these networks according to needs, costs, and technological developments.
- The capacity to analyse the problems and needs of industry, to adapt rapidly to demands requiring mastery of risks and safety. These capacities are developed in particular during the numerous projects carried out in School and in industry during the studies.
- The ability to work in an international context: the ability to communicate in English in various and complex situations with a particular ease in the speciality fields.
- The capacity to integrate economic, social, environmental and ethical questions by referring to a range of knowledge acquired in human, social and economic sciences.
- The aptitude to undertake innovative activities or projects through the experience gained during those projects carried out during the industrial training periods which alternate with the periods in School.

4.3 Programme details

The scientific teaching has a compulsory common core consisting of:

- Informatics: 42 ECTS credits
- Networks and telecommunications: 18 ECTS credits
- Electronics and signal processing: 15 ECTS credits
- Mathematics: 6 ECTS credits

This is completed by human, economic and social sciences (18 ECTS credits) and languages and international culture (15 ECTS credits).

The students personalise their education in the final year (semester 9). They choose a major from a list proposed by CPE Lyon. Each major leads to the award of 21 ECTS credits.

4.4 Grading scheme and grade distribution information

The skills and knowledge of the students are assessed by the teachers of each module on a regular basis and by examinations at the end of each semester: written examinations, oral exams, presentations of reports or projects, reports and individual or team work.

A module is validated if an average of 10/20 is obtained for all the assessments carried out for that module, expressed from 0 (the lowest mark) to 20 (the highest mark).

An academic semester is validated when 24 or 27 ECTS credits are obtained.

The diploma is awarded, by a jury which meets at the end of the study period, to those students who have fulfilled the following conditions:

- Validated the academic part of the programme,
- Validated the projects and of the mission abroad (apprentices only).
- Validated a level B1 of the 'Common European Reference Framework for Languages' in English for students in continuing education and of level B2 of the same framework for students with the status of apprentice.

The juries are the official bodies of CPE Lyon and are authorised to take the above decisions:

- The jury for the validation of a year of study is comprised of the Director of CPE Lyon, the Director of Studies, the Director of the ITII, the person in charge of the study programme, the coordinator of the teaching of informatics and of communication networks, the coordinator of the human and social science teaching, the knowledge homogenisation course coordinator, and two industrial representatives.
- The jury for the award of the diploma is comprised of the Director of CPE Lyon, the Director of Studies, the Director of the ITII, the person in charge of the study programme, the coordinator of the teaching of informatics and of communication networks, the coordinator of the human and social science teaching, the knowledge homogenisation course coordinator, the Language Coordinator, and two industrial representatives.

4.5 Overall classification of the qualification

Not applicable.

5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study

- Doctoral studies: doctorate in six (6) semesters.
- Specialised short course studies:
 - Diplomas with the label of the Conference des Grandes Ecoles: specialist masters.
 - Diplôme d'Ingénieur de Spécialisation or others.

5.2 Professional status

In France, the diplôme d'ingénieur is subject to a periodic accreditation by the Commission des Titres d'Ingénieur (CTI). The diplôme d'ingénieur confers the degree of master. It is also a professional qualification; the profession of engineer is not regulated. The graduate engineers of CPE Lyon can exercise the profession of engineer immediately following the award of the diploma.

6 ADDITIONAL INFORMATION

6.1 Additional information on the academic and professional curriculum

██████████ was admitted to CPE Lyon with the status of a student in apprenticeship after a preparatory programme conforming to the admission conditions defined in paragraph 3.3.

| | Academic semester | Period | | Institution | Country | Language of instruction |
|-----------------------|-------------------|------------|------------|--|---------|-------------------------|
| | | from | to | | | |
| Preparatory programme | | 01/09/2004 | 30/06/2006 | DUT Informatique IUT A, Bourg en Bresse | FR | French |
| Engineer programme | Semester 5 | 14/09/2006 | 26/01/2007 | CPE Lyon - IUT B - AFPI Rhodanienne | FR | French |
| | Semester 6 | 08/02/2007 | 29/06/2007 | CPE Lyon - AFPI Rhodanienne | FR | French |
| | Semester 7 | 06/09/2007 | 25/01/2008 | CPE Lyon - AFPI Rhodanienne | FR | French |
| | Semester 8 | 07/02/2008 | 27/06/2008 | CPE Lyon - AFPI Rhodanienne | FR | French |
| | Semester 9 | 02/10/2008 | 23/01/2009 | CPE Lyon Option in Systems & Computer Science | FR | French |

| Industrial projects | Period | | Company | Country | Language | Theme of the project |
|-------------------------|------------|------------|----------------|---------|----------|----------------------|
| | from | to | | | | |
| 1 st project | 14/09/2006 | 31/07/2007 | CLININFO | FR | French | ██████████ |
| 2 nd project | 06/09/2007 | 30/06/2008 | CLININFO | FR | French | ██████████ |
| 3 rd project | 02/10/2008 | 31/07/2009 | CLININFO | FR | French | ██████████ |
| Mission abroad | 07/07/2008 | 29/08/2008 | BRITISH MUSEUM | GB | English | ██████████ |

Degree obtained at the end of this programme:

Titre d'ingénieur diplômé de l'Ecole Supérieure de Chimie Physique Electronique de Lyon, CPE Lyon,
Spécialité Informatique et Réseaux de Communication,
en partenariat avec l'Institut des Techniques d'Ingénieur de l'Industrie de Lyon,
titre d'ingénieur conférant le grade de Master « Master's Degree ».

6.2 Other sources of information

<http://www.cpe.fr>

7 CERTIFICATION OF THE SUPPLEMENT

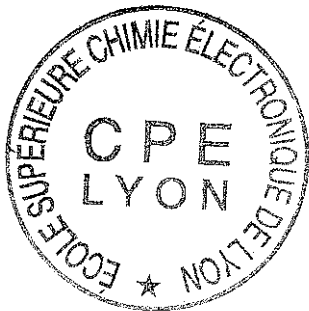
7.1 Date: September 24, 2009

7.2 Signature: Gérard Pignault



7.3 Capacity: Director of CPE Lyon

7.4 Official stamp or seal:



8 INFORMATION ABOUT THE HIGHER EDUCATION SYSTEM IN FRANCE

