BSC DEGREE APPRENTICESHIP SCIENCE, TECHNOLOGY AND HEALTH, ELECTRICITY AND ENERGY CAREERS MAJOR, RAILWAY ELECTRIFICATION SPECIALISATION

🪪 IDENTITY CARD

- Domain : Sciences, Technologies and Health
- Degree apprenticeships
- [Accessible to people with disabilities](#)

- [60 ECTS credits](#)
- 1 year
- 📍 La Rochelle

🎓 REGISTRATION

👤 CONTACT

🎯 OBJECTIVES

📄 PROGRAMME

● Mandatory 🟩 Course option

❯ Analysis, Diagnosis and Maintenance ●

● CMMS - Review Previous Steps

Language used for teaching	French
Teaching time	10h (10h tutorials)
1 ECTS credit	
Course code	559-0-72

● Ethernet Diagnostics and Troubleshooting

Language used for teaching	French
Teaching time	18h (2h lectures - 16h practical work)
2 ECTS credits	
Course code	559-0-71

● Studies / Research / Diagnostics

Language used for teaching	French
Teaching time	16h (2h lectures - 2h tutorials - 6h practical work - 6h work in accompaniment)
1 ECTS credit	
Course code	559-0-73

❯ General Training ●

● Communication: Reporting, Managing - Company Organisation / Employment Contract

Language used for teaching	French
Teaching time	34h (24h lectures - 10h work in accompaniment)
3 ECTS credits	
Course code	559-0-22

● LV1 Anglais

Language used for teaching	French
Teaching time	30h (30h tutorials)
3 ECTS credits	
Course code	559-0-21

IT Skills ●

● Basic Computer Skills (Google Workspace) / Networks (IP address)

Language used for teaching	French
Teaching time	12h (8h practical work - 4h work in accompaniment)
1 ECTS credit	
Course code	559-0-12

● General Physics: Basics of Electricity + Tools

Language used for teaching	French
Teaching time	30h (12h lectures - 4h tutorials - 14h work in accompaniment)
3 ECTS credits	
Course code	559-0-11

● Word Processor / Editing a Spreadsheet / Editing a Text

Language used for teaching	French
Teaching time	16h (12h practical work - 4h work in accompaniment)
1 ECTS credit	
Course code	559-0-13

Methods - Instruction Sheets for CAPE ●

● CAPE Route Sheet (SAP: Parts Flow) / Hardware Integration / CATIA

Language used for teaching	French
Teaching time	32h (2h lectures - 4h tutorials - 16h practical work - 10h work in accompaniment)
3 ECTS credits	
Course code	559-0-52

- **Drafting of Assembly Instructions / CATIA**

Language used for teaching	French
Teaching time	25h (3h lectures - 12h practical work - 10h work in accompaniment)
2 ECTS credits	
Course code	559-0-51

Modelling and Design ●

- **Editing Diagrams and Classification**

Language used for teaching	French
Teaching time	50h (30h tutorials - 20h work in accompaniment)
4 ECTS credits	
Course code	559-0-43

- **Reading Block Diagrams - Principle - Drawing Up an Electrical Diagram**

Language used for teaching	French
Teaching time	22h (12h tutorials - 10h work in accompaniment)
2 ECTS credits	
Course code	559-0-42

- **Risk Integration in Design / V-Model Study**

Language used for teaching	French
Teaching time	18h (8h lectures - 10h work in accompaniment)
1 ECTS credit	
Course code	559-0-41

- **Sizing, Choosing Cables and Equipement (Design)**

Language used for teaching	French
Teaching time	24h (4h lectures - 10h tutorials - 10h work in accompaniment)
2 ECTS credits	
Course code	559-0-44

Railway Electrification ●

- **Energy Quality - Type of Current and Usage - Types of Electrical Distribution**

Language used for teaching	French
Teaching time	24h (4h lectures - 4h tutorials - 12h practical work - 4h work in accompaniment)
2 ECTS credits	
Course code	559-0-32

● Identifying and Choosing the Components (Elements and Wiring) of an Electrical Installation or Equipment

Language used for teaching	French
Teaching time	12h (2h lectures - 2h tutorials - 8h work in accompaniment)
1 ECTS credit	
Course code	559-0-35

● Railway Culture - Regulation and Compliance of Electrical Installations - Railway Safety and Autorisation

Language used for teaching	French
Teaching time	22h (12h lectures - 10h work in accompaniment)
2 ECTS credits	
Course code	559-0-31

● Railway Systems and Electromagnetic Compatibility - EMC

Language used for teaching	French
Teaching time	24h (8h lectures - 12h practical work - 4h work in accompaniment)
2 ECTS credits	
Course code	559-0-34

● Transport Networks, Railway Electricity Distribution and Network Architecture

Language used for teaching	French
Teaching time	14h (4h lectures - 4h tutorials - 6h practical work)
1 ECTS credit	
Course code	559-0-33

⟩ Testing, Commissioning and Validation ●

● Construction / Assembly and Commissioning

Language used for teaching	French
Teaching time	16h (16h practical work)
1 ECTS credit	
Course code	559-0-63

● Electrical Measurements

Language used for teaching	French
Teaching time	20h (2h tutorials - 12h practical work - 6h work in accompaniment)
2 ECTS credits	
Course code	559-0-62

● Wiring according to Instruction Sheets

Language used for teaching French	
Teaching time 24h (24h practical work)	
2 ECTS credits	
Course code 559-0-61	

› Work Placement ●

● Work Placement (Sandwich Course)

Language used for teaching French	
18 ECTS credits	
Course code 559-0-81	

⊚ AFTERWARDS

Information subject to change

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