

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
- Ethernet Diagnostics and Troubleshooting
- Studies / Research / Diagnostics

> General Training ●

- Communication: Reporting, Managing - Company Organisation / Employment Contract
- LV1 Anglais

> IT Skills ●

- Basic Computer Skills (Google Workspace) / Networks (IP address)
- General Physics: Basics of Electricity + Tools
- Word Processor / Editing a Spreadsheet / Editing a Text

> Methods - Instruction Sheets for CAPE ●

- CAPE Route Sheet (SAP: Parts Flow) / Hardware Integration / CATIA
- Drafting of Assembly Instructions / CATIA

> Modelling and Design ●

- Editing Diagrams and Classification
- Reading Block Diagrams - Principle - Drawing Up an Electrical Diagram
- Risk Integration in Design / V-Model Study
- Sizing, Choosing Cables and Equipement (Design)

> Railway Electrification ●

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

- **Identifying and Choosing the Components (Elements and Wiring) of an Electrical Installation or Equipment**
- **Railway Culture - Regulation and Compliance of Electrical Installations - Railway Safety and Authorisation**
- **Railway Systems and Electromagnetic Compatibility - EMC**
- **Transport Networks, Railway Electricity Distribution and Network Architecture**
- **Testing, Commissioning and Validation** •
 - **Construction / Assembly and Commissioning**
 - **Electrical Measurements**
 - **Wiring according to Instruction Sheets**
- **Work Placement** •
 - **Work Placement (Sandwich Course)**

AFTERWARDS

Information subject to change

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