

MINE ELECTRICAL ENGINEER



Description

Mine electrical engineers supervise the procurement, installation and maintenance of mining electrical equipment, using their knowledge of electrical and electronic principles. They organise the replacement and repair of electrical equipment and components.

Alternative label

- electrical engineer
- electrical engineering expert
- mine electrical technician
- mining electrical equipment officer
- mines electrical engineer
- mining electrical engineer
- energy specialist for refinement of fossil fuels
- energy specialist for mining
- mine electrical engineers
- electrical technologist

Regulatory aspect

To see if and how this occupation is regulated in EU Member States, EEA countries or Switzerland please consult the Regulated Professions Database of the Commission. Regulated Professions Database: http://ec.europa.eu/growth/single-market/services/free-movement-professionals/qualifications-recognition_en

skills and knowledge

Soft skills

To be fulfilled by partners either essential or optional (no more than 4 essential items and optional items)

Essential

- | | | |
|--|---|--|
| <input type="checkbox"/> Adaptability | <input checked="" type="checkbox"/> Communication | <input type="checkbox"/> Creative thinking |
| <input type="checkbox"/> Dependability | <input checked="" type="checkbox"/> Work ethic | <input type="checkbox"/> Teamwork |
| <input type="checkbox"/> Positivity | <input type="checkbox"/> Time management | <input type="checkbox"/> Motivation |
| <input type="checkbox"/> Problem-solving | <input type="checkbox"/> Critical thinking | <input type="checkbox"/> Conflict resolution |

Optional

- | | | |
|--|--|--|
| <input type="checkbox"/> Adaptability | <input type="checkbox"/> Communication | <input type="checkbox"/> Creative thinking |
| <input type="checkbox"/> Dependability | <input type="checkbox"/> Work ethic | <input type="checkbox"/> Teamwork |



- Positivity Time management Motivation
 Problem-solving Critical thinking Conflict resolution

Technical skills

Essential

- advise on mine equipment
- design circuits using CAD
- develop improvements to the electrical systems
- ensure compliance with safety legislation
- install electrical mining machinery
- maintain electrical mine machinery
- maintain records of mining operations
- manage emergency procedures
- prepare technical reports
- procure electrical machinery
- supervise staff
- troubleshoot
- use a computer

Optional

- address problems critically
- assess operating cost
- monitor mine costs
- monitor mine production
- present reports
- use technical drawing software

Knowledge

Essential

- design drawings
- electrical engineering
- electrical mine machinery manuals
- electricity
- electronics
- geology
- mine safety legislation

Optional

- mathematics
- mining engineering

Social and linguistic skills

Not required <input type="checkbox"/>	Optional <input type="checkbox"/> <input type="checkbox"/>	Essential <input type="checkbox"/> <input checked="" type="checkbox"/>	According to the context <input type="checkbox"/> Specify if necessary
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Digital skills

Not required <input type="checkbox"/>	Optional <input type="checkbox"/> <input type="checkbox"/>	Essential <input type="checkbox"/> <input checked="" type="checkbox"/>	According to the context <input type="checkbox"/> Specify if necessary
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Communication skills

Not required <input type="checkbox"/>	Optional <input type="checkbox"/> <input type="checkbox"/>	Essential <input type="checkbox"/> <input checked="" type="checkbox"/>	According to the context <input type="checkbox"/> Specify if necessary
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Organisation/management skills

Not required <input type="checkbox"/>	Optional <input type="checkbox"/> <input type="checkbox"/>	Essential <input type="checkbox"/> <input checked="" type="checkbox"/>	According to the context <input type="checkbox"/> Specify if necessary
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Education: related trainings

- In France, there are several schools that train for the profession of mining engineer, i.e. at Bac+5. For example, in addition to the "Ingénieur Civil des Mines" training (apprenticeship possible) and in order to better meet the diversified needs of the economic world.

Context

Context of the profession

To be fulfilled by partners

Jobs are available both in SMEs and in large industrial groups. Graduates quickly find a position after graduation in France and abroad.

In Reunion Island, we do not have a position on the job market.

References

To be fulfilled by partners

<http://data.europa.eu/esco/occupation/e69697d0-2639-4aad-b73a-05e0b98357b1>