

HYDROPOWER ENGINEER

DESCRIPTION

Hydropower engineers research, design and plan the building of facilities that generate electricity from the movement of water. They search optimal locations, conduct trials and try different materials to achieve the best result. Hydropower engineers develop strategies for more efficient energy production and analyse environmental consequences.

REGULATORY ASPECT

Hydropower engineers research, design and plan the building of facilities that generate electricity from the movement of water. They search optimal locations, conduct trials and try different materials to achieve the best result. Hydropower engineers develop strategies for more efficient energy production and analyse environmental consequences.



http://ec.europa.eu/growth/single-market/services/free-movement-professionals/qualifications-recognition_en

TECHNICAL SKILLS

ESSENTIALS

- ✓ approve engineering design
- ✓ design electric power systems
- ✓ draw blueprints

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OPTIONALS

- ✓ inspect facility sites
- ✓ promote environmental awareness
- ✓ promote sustainable energy

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KNOWLEDGE

ESSENTIALS

- ✓ CAD software
- ✓ CAM software
- ✓ electrical power safety regulations

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OPTIONALS

- ✓ automation technology
- ✓ mechanical engineering
- ✓ oceanography

SOFT SKILLS



DEPENDABILITY

80%



WORK ETHIC

80%



CONFLICT RESOLUTION

40%



CRITICAL THINKING

40%



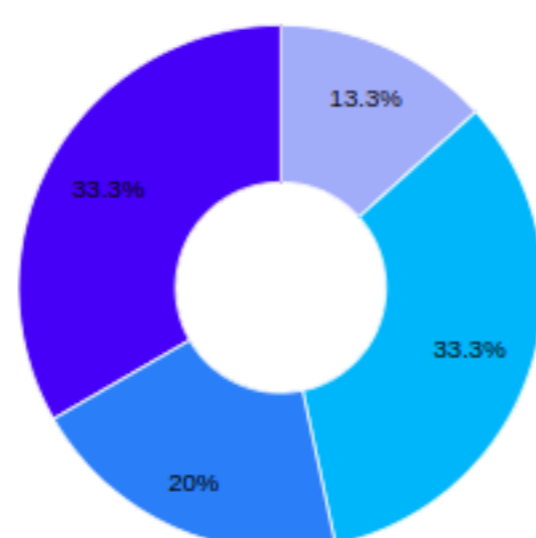
PROBLEM SOLVING

40%







TIME MANAGEMENT

20%



- Social and linguistic skills
- Digital Skills
- Communication skills
- Organisation/Management skills

LEARNINGS

-  UTBM - Energy Engineer
-  Bachelor of Energy Engineering
-  Master of Energy and Nuclear Engineering
-  Hydropower engineer