



Le réseau de l'intelligence électrique

# “High Voltage Live Working and Training” *RTE's training expertise...*

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*Training future workers allows us to teach new techniques and methods.  
Training responds and contributes to the ongoing professionalization of the  
company's employees.*

*Our training strategy is based on studying theory and learning techniques through  
practical exercises and simulations.*

Live Working takes 3 aspects into consideration...

1. Safety:

- Development of professional certification,
- Increasing safety for maintenance personnel.

2. Technical:

- Technical progress in devising projects, methods and techniques deployed in the field.

3. Economical:

- More detailed planning of operations, driving improvements in working conditions.

## RESPONDING TO THE NEED FOR PROFESSIONAL TRAINING.

Evaluation and follow-up of the efficacy of the programme.  
(agreement audit, follow-up audit, internal testing...)

Certified training centre for LV and HV.

- Applying requirements of Decree 82-167 (16/02/82).
- Integrating requirements of NFC 18-510-1 (June 2012).
- Being responsible for the appropriation of RTE's regulatory texts and prescriptive guidelines for LW.

A complete programme  
«Introductory training» and  
«Retraining modules»

A LW training programme  
approved by the LW Committee.

# INTRODUCTORY TRAINING: PROGRAMMES AND METHODS.

## LW on HV lines:

- 1) LW Line Operator Training.
- 2) LW Line Helicopter Works Operator Training.
- 3) LW Training for helicopter pilots.

## LW on HV substations:

- 1) LW Substation Operator Training.

**HV LW Technician Training.**  
Common programme  
Lines/Substations

The **skills objectives** for the introductory training programmes are:

- 1) Understand the operating mode and its role.
- 2) Carry out operational actions on the instructions of the Site Manager,
- 3) Offer feedback.

**Our teaching methods** give the trainee the capacity to:

- Understand the characteristics related to HV LW.
- Apply LW rules in the context of their work.
- Identify important elements of the project in order to provide feedback.

# RETRAINING MODULES: PROGRAMMES AND METHODS.

## LW on HV lines:

- ✓LW Line Operator Retraining Module.
- ✓LW Technician & Site Manager Retraining Module.
- ✓Operator & Pilot for LW Helicopter Works Retraining Module.
- ✓LW Helicopter Works Technician & Site Manager Retraining Module.

## LW on HV substations:

- ✓LW Line Operator Retraining Module.
- ✓LW Technician & Site Manager Retraining Module.

The **skills objectives** for the retraining programmes are:

- 1) Be familiar with site rules,
- 2) Know how to identify and analyse risks,
- 3) Apply LW rules and techniques,
- 4) Make preparations for a LW operation,
- 5) Gather project feedback.

**Our teaching methods** give the trainee the capacity to:

- Integrate applicable regulations in LW operations,
- Apply rules to LW preparations,
- Propose solutions,
- Explain and set out the arguments for LW preparations,
- Lead feedback.

This training is aimed at Management in charge of LW activities and Managers of operational teams (e.g. LW Advisors & LW Coordinators in RTE’s Transport Units).

The **skills objectives** for “LW Advisors” are principally:

- 1) Acquire skills related to the evaluation of criteria used for choosing operating methods, studies and LW feasibility,
- 2) Approve LW team preparations of teams,
- 3) Assure technical support of teams (organisation, activities, monitoring...),
- 4) Contribute to managing risk prevention management to increase levels of professionalism.

**Our teaching methods** give the trainee the capacity to:

- 1) Analyse LW activity and propose areas for improvement,
- 2) Organise LW activity with respect to the criteria defined by LW policy,
- 3) Advise and support LW teams (Application of regulations, risk analysis, associated prevention methods).



## *Training for performance.*



Our LW training capacity is approx. 8000 hours/year, for an operational capacity of approx. 150,000 hours/year of LW.

A training period on LW at Rte, equivalent to 3 days/year for a group of 329 LW operators.

A total of 20 LW training sessions per year, i.e. approx. 170 visiting employees.

**Le centre de Lyon Jonage en chiffres**

**18** M€ investis sur 3 ans

**20** formateurs à temps plein

**2500** stagiaires formés chaque année

## SUMMARY AND PROSPECTS.

### Summary...

*We benefit from an improvement loop proven to be effective in both quantitative and qualitative terms.*

### Prospects...

*Responding to the challenges the company faces, notably maintaining the activities and skills of Rte's LW teams.*

*Broadening horizons via Rte's subsidiaries.*

*Adapting Rte's Training Centre to meet diverse needs.*

THANK YOU FOR LISTENING.

FRANCK.

