



LTI, HiPo: **ELECTRICAL SHOCK DURING CABLING WORKS**

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Summary:

Recently a Lost Time Incident occurred on an EfW project located in France. An electrician received an electrical shock while working in an electrical cabinet. The cabinet itself was isolated and locked, but the cables feeding the cabinet from below were energized. Although there were warning signs indicating that the cabinet was energized, the electrician removed the protective plate and accidentally touched an exposed 400V conductor. No Permit to Work system was in place. The electrician did not check that the conductor was dead before starting his work.

Outcomes:

The IP stayed in the hospital for 5 days and is signed off work for minimum 3 weeks.

Incident Classification: LTI/HiPo

Warning signs



Exposed energized conductors

Energized part



Protective plate

Root Causes and Contributory Factors

Root causes:

- The Injured Person failed to control the risk associated with live electrical cables.
- Electrical hazard not identified in the Point of Work Risk Assessment - Take 5'
- There were no Permit to Work and Lock Out Tag Out safe systems of work controlled by HZI

Contributory factor:

- Lack of Co-ordination between HZI and sub-contractor regarding electrical isolations.

Lesson Learned

- Before any working activity on energized systems or in close vicinity of them a Permit to Work must be acquired from HZI
- Plan the activities to achieve Safety from the System:
 - Disconnect from the power supply
 - Prevent re-connection – (Lock Out Tag Out)
 - Earth and short circuit (If applicable).
 - Protect from live adjacent parts.
- Perform a Point of Work Risk Assessment before the task.
- Improve HZI corporate induction of the HZI Site team



Every Lesson Learned is an opportunity to avoid recurrences.
What have you done to avoid a similar incident on your project?

