


# Work & Installation, Switching & Safety Supervisor (IV/WV) and/or Skilled Level (VP) Low Voltage

This base course trains students to the level of Work & Installation, Switching & Safety Supervisor and/or Skilled Level in the Low Voltage area. The course covers subjects that are based on the competence requirements of Stipel, section 8 (Stichting Persoonscertificatie Elektrotechniek) and is directly linked to the practical aspects. Students who successfully complete the course receive the digital Inrush  tificate IV/WV Low Voltage.

Certified electrical engineers are of great value to the energy technology sector. They have up-to-date knowledge, making them more employable when working on and near electrical installations. They also reduce the risk of accidents.

## COURSE CONTENT

### General

- The student can recognise and prevent dangers that can occur with electricity;
- The student knows the relevant legislation and frameworks with regard to responsibilities and authorisations according to NEN3140;
- The student knows the safety procedures;
- The student knows how to use the necessary tools and personal protective equipment;
- The student can work on or in the vicinity of electrical installations.

### Theory

- The operation of electrical installations;
- Switchgear, cables and transformers;
- Power systems and power chains, rail systems and protective systems.





### Practice


- Do's and don'ts with regard to entering electrical premises;
- Preparing and drafting switching orders (only IV/WV);
- The various necessary safety measures;
- Instructions on mutual communication and standard language use;
- Executing switching commands and procedures in operational activities.

Please find the training programme per day on the last page.

### Exam and certificate

The course IV/WV is concluded with an  exam on the last day of the course, consisting of theory, practice and the drafting of switching orders (only IV/WV). Upon successful completion, a digital Inrush  tificate will be issued. The certificate is valid for 3 years.



"When I'm certified  can and may work (more) independently"

**Previous education**

Education, experience and background in electrical engineering at least at WEB level 4 is desirable.

**Study material**

Students receive a text book.

**Study load**

The course duration is 3 days, including an exam.  
Students should devote at least 6 hours to self-study.

**Group size**


Four to six people. It is possible to combine students from different companies in one group.

**Course location**

The course will be taught at one of the following locations:  
Heemskerk, Maasdijk, Oude Tonge and Nieuwleusen.




"Theory and practice come together beautifully."

**Inrush  courses, always current**

Inrush was founded by professionals with extensive knowledge of safety training in low and high voltage. Our courses offer the security that is needed when dealing with electricity. Our teachers train more than 2,000 students annually at 4 locations of our own, 2 guest locations, and at locations of our customers and clients.

**They were there before you:**

These companies, among others, have been successfully trained by Inr  Stedin, Shell, TataSteel, Engie, Alliander, Essent, Vestas, Spie, Croon, Petrogas, GVB, HTM, Waternet, Actemium, Joulz, RET, PWN, Hollands Noorderkwartier, AMC, VU, MCA, ECT, Albemarle, Cogas, Westland Energy en NUON.

## PROGRAMME

Each course day starts with a theoretical module. Next, we practice what we have learned in our practical areas. Our installations are very similar to installations used in energy companies and in the industry in general. This way, students can experience the very risks they may encounter in their work. Our installations use live current. This means that students can also practice using their own measurement and safety equipment.

Day 1	Day 2	Day 3
<ul style="list-style-type: none"><li>✓ Introduction</li><li>✓ Switchgear and rail configurations</li><li>✓ Generation and consumption equipment: transformers, motors, condensers</li><li>✓ Switching orders</li><li>✓ Practical assignments</li></ul>	<ul style="list-style-type: none"><li>✓ Touch protection</li><li>✓ Power systems and safety chains</li><li>✓ Cables and wiring</li><li>✓ Dangers of electricity</li><li>✓ Operating and safety measures</li><li>✓ Practical assignments</li></ul>	<ul style="list-style-type: none"><li>✓ Law and regulations</li><li>✓ Presentation regulations NEN3140</li><li>✓ Tools, resources and PPE</li><li>✓ Standard and additional operating procedures</li><li>✓ Authorities and mutual relations</li><li>✓ Practical assignments</li><li>✓ Examination</li></ul>

For questions or more information, please contact Normec Inrush.

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