For guidance on managing construction health risks go to
www.hse.gov.uk/construction

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Using the Laser Level

1. Wear your protective equipment.
2. The laser level is a sensitive instrument; store it in its case when being carried or when not in use.
3. Switch off the laser before opening the battery case and changing batteries.
4. Do not allow anyone to work directly in the path of the laser beam. If you cannot clear the area, operate at a height above people's heads, or take other preventative action.
5. On rare occurrences, reflection from mirrors, vehicle windscreens, or other reflective surfaces can interfere with the accuracy of the laser device.

AFTER WORK

1. You are responsible for the safety and security of this equipment at all times, especially overnight. Always store all the equipment safely and securely as soon as you have finished using it.
2. When all measurement is finished replace this sensitive equipment in its container and return it to the hire company – do not leave it where it may become damaged.
3. If your equipment is faulty, do not attempt to repair it. Contact the hire company.

Please keep this leaflet safely as it may be required for future reference

Laser Level

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read this entire leaflet BEFORE using the Laser Level

1. Plan the use of the Laser Level so that it can always be used safely.
2. This equipment can cause laser radiation burns, do not remove covers when the equipment is switched on.
3. Lasers can be injurious to the eye – do not look directly into a laser beam.
4. Do not ignore safety warnings – follow all instructions printed on the equipment or its containers.
5. The batteries in this equipment can produce an electric shock if mishandled, especially when wet. Do not dispose of spent batteries in a fire, they will explode.
6. This laser equipment is a delicate instrument, take care in use, and always store it carefully in its proper container.
7. This laser level is designed to provide an accurate method of laying out the levels on an internal or external site. The process can usually be managed by one person.
8. Injury or damage may occur if this equipment is carried while it is set up. Always remove the laser from its tripod or other mounting and secure it in its case before relocating.
9. Some prior surveying knowledge, and use of laser equipment skills, is essential. This safety leaflet does not give instruction in the operation and use of this equipment.

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Before Starting Work...

OPERATORS

1. Ensure that you are alert and exercise care in using this laser. Do not operate this equipment if you are tired or under the influence of drugs or alcohol.
2. The following items of personal protective equipment (ppe) are the minimum that should be worn whenever you use the laser level. Particular jobs or environments may require a higher level of protection.
3. Risk assessment or construction site regulations may require that you wear a safety helmet to EN397 or BS5240;
4. You should wear safety boots (EN345 or BS1870 / 4972);
5. Anybody who is working near to you will also need to wear appropriate personal protective equipment.

LASER LEVEL

1. Assume the laser is always in an operating condition until the switch is switched off.
2. Laser light is hazardous to the eyes; do not look directly into the laser beam.
3. The radiation from this equipment can cause radiation burns, do not open protective covers while in operation.
4. Check your equipment and all accessories. Do not use anything found damaged – contact the hire company.
5. You must have some prior knowledge of surveying and how to use this equipment.
6. If you are unfamiliar with this type of laser equipment, study it carefully before starting. Practice its use before doing the actual surveying tasks.

SETTING UP

1. Your equipment may have auto levelling facility or may require to be levelled manually.
2. Even equipment that has auto levelling facility still requires that you set it up within + -5° of level.
3. To level the equipment you must ensure the bubble inside the levelling window is within the inner circle marked.

BATTERY

1. Use only the batteries supplied or recommended by the hire company. Check the battery life before starting to use the level.
2. Some laser devices can use either rechargeable or single life-batteries. Do not mix rechargeable batteries with single life-batteries in the equipment.
3. Switch off the laser before opening the battery case and changing batteries.
4. If changing batteries change all of them, do not mix old batteries with unused ones.
5. On some laser devices you may be able to recharge the batteries while the device is set up and in use. Do not do this unless the instructions are specific. Follow any instructions printed on the equipment or given by the hire company.
6. Do not try to recharge single-life batteries.
7. If storing the equipment for a few days or longer, remove the batteries.
8. The acid in some batteries may cause burns to skin or clothing. Take care not to damage them.
9. Do not dispose of any battery in a fire, they may explode. Dispose of spent batteries according to local environment regulations; or return them to the hire company.
10. Forward planning may be required when using this equipment; you may have to exclude workers and vehicles from the area to be surveyed.
11. You must have at least the following items of personal protective equipment: safety helmet to EN397 or BS5240 if you are on a construction site; safety boots to EN345 or BS1870/4972 or at least strong shoes.
12. This laser level must not be used by minors, or any anyone under the influence of drugs or alcohol.
13. The laser level is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using them.

SURVEY AREA

1. Depending on what task you are doing you may need a clear field of vision through 360 degrees in the area that you are working in. Parked vehicles or other similar large obstructions may interfere with the readings and cause inaccuracies.
2. It would reduce the risk of laser induced injury and enable your tasks to be completed more efficiently and accurately if your work area is cleared of people and vehicular traffic while the laser is in use.
3. Do not allow unauthorised persons to use or to come within close proximity of your laser equipment.