

Chapter 10: [Laser Safety](#)

Student Requirements

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URL: <https://www-esh.slac.stanford.edu/eshmanual/references/laserReqStudent.pdf>

1 Purpose

The purpose of these requirements is to ensure the safety of students, secondary, undergraduate, and graduate, working with lasers at SLAC.

They cover operating Class 3B and Class 4 lasers in SLAC laser facilities.

They apply to students, the persons who supervise them, and *system laser safety officers (SLSOs)*.

2 Requirements

Recognizing that

1. Students are not SLAC employees
2. Students may be working at SLAC for a short period (for example, summer students)
3. Students require significant supervision and mentoring

SLAC requires that

1. Secondary school students and students under 18 will not be allowed to work with Class 3B or Class 4 lasers and cannot become *qualified laser operators (QLOs)* or *laser controlled area (LCA) workers*
2. Undergraduate students (for example, university and community college students) working at SLAC for less than 10 weeks may work with Class 3B and Class 4 lasers as QLOs only under direct supervision of an experienced QLO who is present in the laser facility. After 10 weeks of work at SLAC, such students may be evaluated and approved by the SLSO to work unsupervised in a facility with Class 3B and Class 4 lasers present. Undergraduate students may be approved as LCA workers following completion of on-the-job training.
3. Graduate students may be evaluated and approved by the SLSO after four weeks of supervised QLO work (rather than 10 weeks as described above) with Class 3B and Class 4 lasers to work unsupervised in a facility with these lasers present. Graduate students may be approved as LCA workers following completion of on-the-job training.

3 Forms

The following forms and systems are required by these requirements:

- None

4 Recordkeeping

The following recordkeeping requirements apply for these requirements:

- None

5 References

[SLAC Environment, Safety, and Health Manual](#) (SLAC-I-720-0A29Z-001)

- [Chapter 10, “Laser Safety”](#)
 - [Laser Safety: Class 3B and Class 4 Laser Operation Requirements](#) (SLAC-I-730-0A05S-004)
 - [Laser Safety: Laser Controlled Area Visitor Requirements](#) (SLAC-I-730-0A05S-011)