UW Laser Alignment Worksheet

**Date completed: (text box)**

# Laser information

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| --- | --- |
| **Make: (text box)****Model: (text box)****Serial Number: (text box)****Wavelength: (text box)****Alignment Power:** (text box)**OD of protective eyewear:** (text box) | **System Owner:** (text box)**Laser workers authorized to perform alignment**(text box)(text box)(text box) |

# Pre-alignment

1. **Only authorized personnel in Laser Control Area (LCA)** yes no

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| If no describe how unauthorized personnel will be protected from Nominal Hazard Zone (NHZ). |
| (text box) |

1. **Laser workers**

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| Have removed all reflective jewelry/items from below the elbows. yes noHave removed items from shirt pockets that can fall into path. yes noLong hair/ loose clothing is secured from falling into path. yes noAre wearing laser protective eyewear appropriate for laser. yes no Have posted “alignment in progress” signs at entrances to LCA yes noHave shut-down all other lasers on the same bench/optic table. yes no |
|  | If no, describe how the operating lasers are isolated/contained. |
| (text box) |

1. **Tools and materials necessary for alignment**

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| --- | --- |
| All materials/items needed for alignment have been identified and are readily available |  yes no |
| All items not needed for alignment have been removed from the bench/optic table |  yes no |
| Non-reflective tools are being used yes no |
|  | If no, describe how risk of reflection is being controlled. |
| (text box) |
| All components to be placed in beam path have been reviewed for correct placement, orientation and operation. | yes no |
| All components to be placed in beam path are capable of withstanding the wavelength and power of the laser. | yes no |
| **For invisible lasers** |
|  | Describe how you will ensure the beam is contained and stray reflections are identified and controlled. For example, remote viewing, use of phosphor-viewing cards, fluorescent cards, IR viewers, etc. |
| (text box) |
| For pulsed lasers.Single pulse or low repetition rate is being used yes no |
| For Q-switched lasers. Q-switch is off and CW mode is used yes no |

# Alignment

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| Beam is kept on the same plane as the bench/optic table | yes no  |
| Beam is confined to bench/optic table | yes no |
| Beam stop/blocks are in place upstream before inserting/removing anything into the beam path such as alignment irises | yes no |
| As alignment progresses along the optical path, beam blocks are placed behind optics in case beam misses target | yes no |
| As alignment progresses, back reflections and leak through are identified, tracked and blocked | yes no |
| All optics are secured to the bench/optic table prior to alignment | yes no |

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| Defeated interlocks are returned to normal operation yes no |
| Tools are removed from the bench/optic table yes no |
| Replace any enclosures/barriers that were removed yes no |
| PPE is cleaned and stored in proper location yes no |

#  post-alignment