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Oplatek Oy to offer training in optical fiber manufacturing.

Oplatek Oy is offering a full training for operator and supervisor level in optical fiber manufacturing in its premises in Leppävirta, Finland. Our manufacturing plant will take a limited number of training courses, starting in 2008. The training includes a program, that will cover the manufacturing processes and logistics training, to servicing and calibration of the equipment as well as good manufacturing practises in clean room facilities.

Our facilities include:

Optical fiber drawing tower, height 20 m. The tower is equipped with 100 kW induction furnace, Zeidl wet-on-wet coating applicators and dual fiber take-up. The construction speed for tower is in excess of 1000 m/min. Tower was erected in 2001.

Optical fiber drawing tower, height 7 meters, is very suitable for specialty fiber drawing. The furnace in the small tower is an Astro EHR-85 15 kW, suitable for preforms 6..30 mm in diameter, so special preforms with small diameter does not make any limitations. The smaller tower is equipped for UV and heat cured coatings including polyimides and low refractive index materials. The tower was erected in 1988.

Fiber test laboratory

Optical fiber proof testing and rewinding machine.

Optical fiber geometry test Photon Kinetics 2400 CTG.

Optical fiber test set Photon Kinetics 2500 w. options: Differential Mode Delay. Wavau unit for Mode field diameter.

Optical fiber test set Photon Kinetics S-18, Chromatic Dispersion, Polarization Mode Delay PMD.

Fiber Inking and Tight buffering machine.



## The Training Courses

The training courses include:

Introduction to optical fibers and optical fiber standards.

Introduction to optical fiber materials and accessories.

Introduction to manufacturing equipment.

Introduction to quality assurance equipment. ( Laboratory)

Introduction to good manufacturing practises in an optical fiber plant. ( Clean Room Operation)

Optical fiber drawing:

- preparations
- fiber drawing supervised by our specialists
- process monitoring, optimizing
- manufacturing practises
- material handling
- servicing of the equipment according to machine specifications

Optical fiber testing

- introduction to fiber requirements and standards
- preparing the samples
- proof testing
- testing of fiber discontinuities with an ODTR
- fiber geometry testing w. PK 2400 CTG
- testing the electromagnetic properties w. PK 2500, S-18
- temperature induced properties ( Thermal cycling, ODTR)
- bending induced properties

Optical fiber processing

- inking
- tight buffering

Optical fiber data handling and fiber logistics

- data collection
- data handling
- labeling, test protocols
- packaging and shipping

The courses can be focused on single-mode, multimode or specialty fiber manufacturing. The program can be flexibly adjusted to fit the existing skill levels. The training language is english.