

# Comprehensive Career Program

Educational Training Equipment for the 21st Century

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## Hampden HEE-FONT Fiber Optics Network Trainer

The Hampden MODEL HEE-FONT Fiber Optics Network Trainer is a versatile program for all age groups from early middle school through vocational school.

This system uses a modular approach which eliminates the long hours of curriculum research/preparation and equipment assembly. The HEE-FONT is a stand-alone system—laser is not required.



### The Fiber Optics Network Training System consists of:

- Crimping Tool
- Wire Stripper
- Fiber Optic Stripper
- Insulation Stripper
- Microscope
- Needle Nose Pliers
- Tweezers
- Scribe
- Mini-source Scribe
- Safety Goggles
- Bare Fiber Holder
- Cleave Fixture
- Unistage
- Conn. Adapter
- 9V Battery
- Utility Knife
- Scissors
- Power Meter
- Infrared Light Source
- Power Supply
- Transformer
- Fiber Optic Curing Oven
- Armored Cable Cutter
- Optical Loss Calculator
- Polishing Pack
- Set of Cables
- One-Wrap Fasteners
- Visual Fiber Tracer
- Video Package
- Pack of Tra-bond
- Pack of Cable Gel Remover
- Tool Box
- Pack of Terminal Consumables:
  - 3-Syringes
  - Polishing Film, 0.3, 3, and 12 micron
- Pack of Testing Consumables:
  - 3-Pack Tra-con Epoxy
  - Pack 3mm Jacketed Cable
  - 2-Protective Sleeves
  - Pack Kim Wipes
  - Plastic Jar
- Pack of Splice Consumables:
  - 2-ST-ST Barrel Connectors
  - 2-ST-ST Fiber Optic Patch Cords
  - 10-Pack Alco Pads
- Cable Consumables:
  - Pulling Eye
  - Roll of Electrical Tape

### Demonstrations

- Fiber Optic Voice Link
- Morse Code Relay System
- Duplex Data Transmission
- Passive Fiber Coupled Sensor
- AM Radio Transmitted by Light
- Fiber in Sensor Applications
- Optical Repeater (like AT&T)
- Analog & Digital Transmission

### Experiment Capabilities

- Attenuation in Optical Fibers
- Optical Coupling Into a Fiber
- Bending Losses In Optical Fibers
- Fiber Terminations and Polishing

### Option

#### MODEL HEE-FS, Hand-Held Fusion Splicer Kit

The Hampden MODEL HEE-FS Hand-Held Fusion Splicer Kit consists of the following:

- Hand-Held Fusion Splicer
- Soft Carrying Case
- Hand Held Precision Cleaner
- Pair of Fiber Holders
- Adapter
- Pair of Spare Electrodes
- Electrode Cleaning Disk
- V-Groove Cleaning Brush

### Specifications

- Splice time: 13 seconds
- Heat time: 25 seconds
- Splice Programs: Max 150
- Heat Programs: Max 18
- Fiber Image Magnification: 120x
- Splice Memory: Max 2,000
- Dimensions: 6-1/4" W x 9" D x 4" W
- Weight: 3.5 lbs
- Data Output: USB Ver. 2.0 mini
- Power Source: AC Input 100 to 240V 50/60Hz  
DC Input 11 to 17V
- Battery Capacity: Typical 70 splice/heat cycles
- Operating Temperature: 14 to 122°F

All Hampden units are available for operation at any voltage or frequency

**Hampden**  
ENGINEERING CORPORATION

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