

## Description

This advanced level package includes composite materials, equipment, and shop supplies necessary for more advanced training and composite shop sophistication. This package is suitable for learning environments where large production runs are typical. End products can be up to 6 feet in length.



This package includes...

### Equipment

- VACSYSKITAL - Vacuum System, Hoses, Probes, Gauge, Manifold, and Fittings.....Quantity: 1 Ea
- PCCEG48X60 - Floor Level Electric Oven (Interior: 48in w x 48in d x 60in) .....Quantity: 1 Ea
- CFMED - Chest Freezer (Interior 21.7 cu.ft.) .....Quantity: 1 Ea
- DDTL - Downdraft Table (Workspace: 28in x 79in).....Quantity: 1 Ea
- TTIS 20" - 20in Tabletop Impulse Sealer .....Quantity: 1 Ea
- TTCS - Tabletop Cutting Surface (0.25in thick, custom width x length) .....Quantity: 125 SF

### Materials

- BMS 9-3 7781 - Dry Fiberglass Fabric Style 7781 (38in wide).....Quantity: 30 Yds
- BMS 9-8 3K-70-P - Dry Graphite Cloth Style 3K-70-P (42in wide).....Quantity: 30 Yds
- KEVLAR 285 - Dry Kevlar Fabric Style 285 (38in wide) .....Quantity: 30 Yds
- BMS 8-79 120 - Fiberglass Prepreg 250 Degree Style 120 (38in wide).....Quantity: 30 Yds
- BMS 8-79 7781 - Fiberglass Prepreg 250 Degree Style 7781 (38in wide) .....Quantity: 30 Yds
- BMS 8-168 3K-70-PW - Graphite Prepreg 250 Degree Style (42in wide).....Quantity: 30 Yds
- AF 163-2K .06 - Adhesive Film 3M AF 163-2K .06 (36in wide) .....Quantity: 30 Yds
- MA 562 GRADE 50 - Foaming Adhesive (1ft x 2ft).....Quantity: 10 Sheets
- APH 1/8-3.0 48X96X0.50 - Non Metallic Honeycomb (48in x 96in x 0.5in).....Quantity: 1 Sheet

### Bagging Materials

- FT-01 - Flash Tape (1in wide x 72yds long) .....Quantity: 12 RLS
- B100Z - Non-woven Breather/Bleeder Fabric (10ozft; 60in wide x 50yds long) .....Quantity: 1 RL
- MQ46 - Vacuum Bagging Film (2mil thickness x 60in wide x 500ft long) .....Quantity: 1 RL
- NPP-46 - Nylon Peel Ply (46in wide).....Quantity: 50 Yds
- FEP48-NP - Non-perforated Parting Film (48in wide).....Quantity: 50 Yds
- FEP48-P - Perforated Parting Film (48in wide).....Quantity: 50 Yds
- ST-1/8X1/2X30' - Vacuum Bagging Sealant Tape .....Quantity: 96 RLS

### Shop Supplies

- POLYTB14IN - Clear Poly Packaging Material (14in wide x 725ft long).....Qty: 1 RL
- STDSP3X4 - Standard Spreader (3in x 4in).....Qty: 100 Ea
- CTFTSTCK - Jumbo Craft Stick (6in x 3/4in) (500/box) .....Qty: 2 Boxes
- MXCUPS - 16oz Paper Cups, Non Wax (500/case) .....Qty: 1 CS
- TYVAPRON - Tyvek Apron (100/case).....Qty: 1 CS
- SEGLVS - Nitrile Gloves (Small) .....Qty: 10 Boxes
- SEGLVM - Nitrile Gloves (Medium).....Qty: 10 Boxes
- SEGLVL - Nitrile Gloves (Large).....Qty: 10 Boxes
- SEGLVXL - Nitrile Gloves (X-Large) .....Qty: 10 Boxes
- SERESP - N95 Particulate Respirator (10/box) .....Qty: 12 Boxes
- SCACC - Purewipe Class A Cleaning Cloth (100/bag).....Qty: 5 Bags
- RF 4010 - Epoxy Resin (Part A) .....Qty: 4 Gal
- RF 81 - Epoxy Curing Agent (Part B).....Qty: 2 Gal



### Shop Supplies (cont.)

- 3MTD-1 - Desktop Tape Dispenser (1in) ..... Qty: 6 Ea
- BAGTOOL - Bagging Tool (Handle Type) ..... Qty: 15 Ea
- FREKOTE 710NC - Frekote 710 NC Mold Release..... Qty: 1 Gal
- LD36GR2T3 - 36 Grit Locking Disc (2in, 100disc/box) ..... Qty: 100 Discs
- LD60GR2T3 - 60 Grit Locking Disc (2in, 100disc/box)..... Qty: 100 Discs
- LD80GR2T3 - 80 Grit Locking Disc (2in, 100disc/box)..... Qty: 100 Discs
- LD120GR2T3 - 120 Grit Locking Disc (2in, 100disc/box)..... Qty: 100 Discs
- LD240GR2T3 - 240 Grit Locking Disc (2in, 100disc/box) ..... Qty: 100 Discs
- HP6120VFA610 - sifleece Handpad (Very Fine, 6in x 9in, 60pads/box)..... Qty: 60 Pads

### Recommended Supplies Not Include

- A Comprehensive Guide to Composites Book
- Material rack (Minimum width of 65in)
- Flat aluminum tooling (minimum size of largest project)
- Utility knives
- Shop Scissors
- Chip Brushes
- Safety glasses & storage for safety glasses
- Digital weighing scale (minimum 15lbs)
- 6in measuring scales
- Protractors
- Sharpie Permanent marker (black)
- Color-Tex pencil (blue or yellow)
- Wash bottles

### Application

With this package you will be able to teach students a variety of skill sets related to advanced composite production such as:

- ✓ Wet and dry lay-up
- ✓ Resin mixing and spread
- ✓ Vacuum bagging
- ✓ Cure techniques
- ✓ Part fabrication and trimming
- ✓ Quality Inspection

*Note: equipment photos are for presentation purposes only. Actual colors and sizes may vary depending on your specifications.*