



## TEN STEPS TO 3D CARVING:

- 1) **DESIGN**

It is a good thing to have drawn your design freehand once or twice. This will help you later. If you have a collage of photo, pictures, or drawings available during carving, your sculptures will improve.
- 2) **TEMPLATE**

This is a vital step to the process. Without this step you never know how your sculpture will turn out. Prepare your template on newsprint or cardboard cutouts. Graphing is a quick and simple way to transfer your design from paper to ice using a grid.
- 3) **TRACING**

Apply template to ice and trace. This step requires a die grinder with a straight or tapered cutting end mill bit.
- 4) **CUT OUT  
FIRST DIMENSION**

From the first dimension, remove all ice that is not part of your design. This step requires a chainsaw.
- 5) **PERFECTING  
THE CUT OUT**

Now that your first dimension is cut out, you will continue to work on the first dimension. With a die grinder or sander You will perfect every curve, square of every line and Make that front view appear exactly as your template appears. This step is important, It will insure that your Shape will hold out during the melting process.
- 6) **BLOCKING IN**

Standing to the side of your sculpture you will have to begin creating levels or layers. These layers will be left square. This process uses a die grinder and chainsaw or chisels.
- 7) **ROUNDING**

Once all the layers are there you may begin rounding the corners that require it.
- 8) **SANDING**

Sand the entire surface of the sculpture. You may use an angle grinder or hand sanding.
- 9) **DETAILING**

With the tool of choice you will now put on your final detail. Scales on the fish or maybe feathers on a wing, it is important to detail after sanding. This process will allow for every surfaced to be touched weather it is detailed or not.
- 10) **CLEANING**

At temperatures above freezing you may clean with water. Temperatures between 15°F and 32°F a torch may be used. If you have a finished surface of chisel marks, no cleaning is necessary except brushing of snow. Anything below 15°F will require a buffing tool and or hand sanding.

Presented by:

**[WWW.NICA.ORG](http://WWW.NICA.ORG)**

**For more information order the 10 Steps to 3D Sculpting Book for \$16  
(630) 871 - 8431**