Instructions for Using Condes

Condes is a PC computer program that is used to create and print control description sheets. However, it recently has been expanded to include tools for course design and course printing using the course layout editor. This allows one to print maps from OCAD, complete with the control description sheets. It also makes it easy to cut control circles and connecting lines. The final Condes file is quite small, which makes it easy to e-mail to consultants, vetters, Bob Cooley, mapping director.

1. Download the Condes program from http://www.finn.arildsen.com. BAOC has a club license. From the File menu, choose register software. The club is Bay Area Orienteering Club. If you are a member of BAOC and will be designing courses for the club, contact Evan Custer, evancuster@home.com, for the registration number.
2. Create a map in digital form.
    2.1. If the map is in OCAD,
        2.1.1. Open the OCAD map file.
        2.1.2. Use the File/Export function to create a BMP map. Use the BMP format, because the screen redrawing is much faster than with the metafile format. Set resolution at 200 dpi
        2.1.3. Save the bmp version of map in same folder as you keep Condes files.
    2.2. If the map is hard copy, scan it and save it in folder with Condes files.
3. Open Condes.
4. Create new event file from File/New event.
    4.1. Make one file for all courses on one day. Make separate files for each day of a multiday event.
    4.2. Enter name of file, usually the name of the event.
    4.3. Enter scale.
    4.4. Choose bmp.
    4.5. Select map bmp file just created from OCAD.
    4.6. Click OK
5. Open Course Layout Editor (CLE) by going to Course overprints/Edit course layout
6. Add start point
    6.1. Click on New Control icon on toolbar on right hand side of screen.
    6.2. Position cursor at location of start
    6.3. Left click and add control number, e.g. "st"
    6.4. Right click and choose "Control properties"
    6.5. Under "control type", choose "start point."
    6.6. Hit "close" button.
    6.7. Repeat process if there is more than one start point.
7. Add finish point
    7.1. Click on New Control icon
    7.2. Position cursor at location of finish.
    7.3. Left click and add control number, e.g., "fin"
    7.4. Right click and choose "Control properties".
    7.5. Under "Control type", choose "Finish point with full marking" or "Finish point without marking" as the case may be.
    7.6. Hit "Close" button.
8. Add controls
    8.1. Click on New Control icon
    8.2. Position cursor at location of control.
    8.3. Left click and add control code number, e.g. "A"
    8.4. Right click and choose "Control properties."
    8.5. Define control.
        8.5.1. In column "C", choose "Which feature" if more than one of the same features is in control circle.
        8.5.2. In column "D", choose the feature.
            8.5.2.1. Features are grouped into categories, such as landform, rock, water, vegetation, etc.
            8.5.2.2. Choose appropriate tab.
            8.5.2.3. Click appropriate feature.
        8.5.3. In column "E", choose modifier, crossing (X) or junction (Y) symbol if applicable.

8.5.4. In column "F", include dimensions if applicable.
    8.5.4.1. Click "3x5" button on tool bar.
    8.5.4.2. Enter dimensions in box to the right of "2/3" button.
8.5.5. In column "G", add location of control marker if applicable.
8.5.6. In column "H", add water control if applicable.
8.5.7. When finished defining control, hit "Close" button.
8.6. Continue adding controls.
8.7. Editing controls
    8.7.1. Control properties can be added later if desired
        8.7.1.1. Go to Window, and choose name of file
        8.7.1.2. Double click control to be edited. Add or change control properties as desired.
    8.7.2. To delete control,
        8.7.2.1. >From CLE, hit red "X" in top of tool bar, and click on control to be deleted. Confirm that you want to delete this control. OR
        8.7.2.2. From main control list, select control to be deleted and hit delete button. Confirm that you want to delete control.
    8.7.3. To change position of control, just click on it and drag it to new location.
    8.7.4. To change position of control number, click on it and drag it to new location.

9. Add courses
9.1. From Course/New, add new course name.
    9.1.1. If using the Course Layout Editor, the length will automatically be calculated if "Use Calculated Length" box is checked.
    9.1.2. Manually calculate climb and insert in climb box.
    9.1.3. To print descriptions as text as opposed to symbols (desirable in white and yellow courses), check box "Print as text"
    9.1.4. Add controls
        9.1.4.1. Select first control and click "Insert" button.
        9.1.4.2. Add subsequent controls and insert.
        9.1.4.3. If you want to remove a control or change its position, select it from list and click "Delete".
        9.1.4.4. If you want to insert a new control between other controls, highlight control BELOW control to be added. Then select control to be inserted and hit "Insert" button.
    9.1.5. In Course Layout Editor, select appropriate course from "Course" button.

10. Modifying course markings
10.1. Cutting control circles
    10.1.1. From CLE, right click on control.
    10.1.2. Choose control properties.
    10.1.3. Click on "Circle" tab
    10.1.4. Click on arcs of circle to be deleted.
    10.1.5. To replace an arc, click on desired portion of circle.
    10.1.6. Hit close.
10.2. Cutting connecting lines
    10.2.1. From the CLE, click on connecting line. It will become a thick red line.
    10.2.2. Click on "Cut Line" icon on CLE toolbar.
    10.2.3. Click on connecting line where you want to break it.
    10.2.4. Adjust length of line by dragging black ends to desired position.
10.3. Bending connecting lines around out of bounds areas
    10.3.1. In the CLE, click on the connecting line.
    10.3.2. Click on "Add point" icon in CLE toolbar
    10.3.3. Click on connecting line where you want to bend it.
    10.3.4. Drag black point to desired position.

11. Changing control code numbers with Global Substitution
11.1. If you want to use different code numbers from those you initially used, use this feature to preserve database correlation.
11.2. Go to Window, and select event
11.3. Double click control from list
11.4. Click on "Global Subst." button.

11.5. Enter new code number.
11.6. Click OK
11.7. Close control dialog box.
11.8. Repeat process for each control that needs a new code number.
12. Print control description sheets
  12.1. Go to Print/Control descriptions
    12.1.1. Highlight course or courses to be printed and hit "Select" button.
    12.1.2. If only one course is selected, as many copies of the clue sheet as possible will be printed on one sheet of paper.
    12.1.3. If multiple courses are selected, one copy of each clue sheet will be printed on the same piece of paper.
  12.2. Print Master Control Sheet:
    12.2.1. Go to Print/All Controls.
    12.2.2. Select printer and click OK.
  12.3. Printing course as text for white and yellow courses
    12.3.1. Go to main window.
    12.3.2. Double click on desired course.
    12.3.3. Check box "Print as text".
    12.3.4. Condes does not yet support text translations along with the symbols.
13. Printing Control Course Diagram
  13.1. Lists all controls and on what courses they are.
  13.2. Go to Control/Control Course Diagram.
  13.3. Control-P to print report.
  13.4. If control numbers are truncated, widen column with control numbers by dragging right line to the right.
14. Export courses to OCAD
  14.1. Prepare map for export with CLE.
    14.1.1. Add registration mark by clicking icon (cross-hair) in Course Layout Editor and place mark someplace on map.
    14.1.2. Position course description sheet on map by dragging it to desired location.
    14.1.3. If control circle covers important feature, it may be broken
      14.1.3.1. Select control by right clicking it from CLE and choosing Control Properties, or double click from list of controls
      14.1.3.2. Click on "Circle" tab
      14.1.3.3. Click on arcs of circle to be deleted.
  14.2. Go to Course Overprints/Export courses to OCAD
    14.2.1. Add overlay colors to OCAD file. This only has to be done once for each OCAD map.
      14.2.1.1. Click "Colors" button.
      14.2.1.2. Click "Add Colors" button.
      14.2.1.3. Choose original OCAD file by navigating with browse button. You can change name of file to preserve original OCAD file if desired. Click "Save" button.
    14.2.2. Select course to be exported as OCAD file.
      14.2.2.1. Name file, such as "Orange"
      14.2.2.2. Put in same folder as original OCAD map.
      14.2.2.3. Click "Save" button.
  14.3. Add courses to OCAD map.
    14.3.1. Open original OCAD map file with the Condes colors added.
    14.3.2. For first course before OCAD coordinates of reference point have been entered
      14.3.2.1. Go to File/Import
      14.3.2.2. Select course file
      14.3.2.3. Select "position by using mouse."
      14.3.2.4. Drag courses with mouse to correct location. You may use magnified view to position controls more precisely. Do not hit enter or click mouse outside of box until controls correctly positioned.
      14.3.2.5. Click cursor outside of box.
      14.3.2.6. Go to View, Choose 32X, and position box over reference mark.
      14.3.2.7. Place cursor over exact center of reference mark

14.3.2.8.   Write down coordinates of cursor.
14.3.2.9.   Go back to Condes, Course Overprints/Export courses to OCAD/OCAD
    Coordinates
14.3.2.10.   Enter coordinates that you wrote down at location of reference mark.
14.3.3.   For subsequent courses after OCAD coordinates have been entered.
    14.3.3.1.   Go to File/Import
    14.3.3.2.   Select course file.
    14.3.3.3.   Choose "Place with offset" and leave measurements as 0.00 for both horizontal
        and vertical offsets.
    14.3.3.4.   Imported course map will now be correctly positioned on OCAD map.
14.3.4.   Maps with courses may then be printed.
15.   Export data file for import into OE/MT 2000
    15.1. Go to File/Export Data.
    15.2. Name file and location.
    15.3. In OE/MT 2000, choose Courses/Courses/Import
        15.3.1.   Under File format, choose "Condes export file"
        15.3.2.   Select name of file exported from Condes. Remove quotation marks before and after file
            name if present.
16.   Send courses to consultant, vetter or mapping director
    16.1. Entire Condes file may be e-mailed. It is quite small, usually less than 10K.