

CERTIFICATE PROGRAM

Industrial Drafting Technology

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C — Class Hours L — Laboratory Hours Q — Quarter Hour Credits

Industrial Drafting Curriculum
(One-Year Certificate Program)
suggested sequence

MATH AND SCIENCE		C	L	Q
MA- 013	Basic Mathematics A	4	0	4
MA 023	Basic Mathematics B	4	0	4
MA 033	Basic Mathematics C	4	0	4
PH 041	Elements of Science A	3	2	4
PH 051	Elements of Science B	3	2	4
PH 061	Elements of Science C	3	2	4
HUMANITIES				
*AS 120	Basic Communication	4	0	4
*AS 130	Technical Communication	3	2	4
MAJOR TECHNICAL SPECIALTIES				
DR 111	Engineering Graphics	2	8	5
DR 121	Industrial Drafting I	2	6	4
DR 131	Industrial Drafting II	2	6	4
SUPPORT TECHNICAL SPECIALTIES				
*MF 112	Manufacturing Processes I	2	3	3
*MF 122	Manufacturing Processes II	2	3	3

*Denotes credit toward Associate Degree.

TOTAL CURRICULUM
Quarter Credits — 51
Contact Hours — 71

The Industrial Drafting Technology student translates notes or sketches usually made by engineers into complete working plans and detail drawings so that the part, machine, or product may be manufactured or built. Entry assignments may be in tracing plans and drawings and in preparing simple drawings. As drafters gain experience they work on more complicated plans including detailed drawings showing exact dimensions, tolerances, finish, material, number required, and all other necessary information for production. With additional education, they may become design drafters. Drafters possessing artistic and creative ability may become technical illustrators or product designers. Excellent career opportunities await qualified drafters.

Thames Valley State Technical College also encourages part-time students to attend.

FIRST QUARTER		C	L	Q
MA 013	Basic Math A	4	0	4
PH 041	Elements of Science A	3	2	4
DR 111	Engineering Graphics	2	8	5
TOTALS		9	10	13

SECOND QUARTER		C	L	Q
*AS 120	Basic Communication	4	0	4
MA 023	Basic Math B	4	0	4
PH 051	Elements of Science B	3	2	4
*MF 112	Manufacturing Processes I	2	3	3
DR 121	Industrial Drafting I	2	6	4
TOTALS		15	11	19

THIRD QUARTER		C	L	Q
*AS 130	Technical Communication	3	2	4
MA 033	Basic Math C	4	0	4
PH 061	Elements of Science C	3	2	4
MF 122	Manufacturing Processes II	2	2	3
DR 131	Industrial Drafting II	2	6	4
TOTALS		14	12	19

*Denotes credit toward Associate Degree

TOTAL CURRICULUM
Quarter Credits — 51
Contact Hours — 71