

Engineering Drawing

Topicwise Notes, Video & Trail Online Test Links

For I - Year All Engg. Trades



Sr.No.	I Year All Engineering Trades Syllabus Topic	Topic Notes links	Topic Video Link	Test Link
	Syllabus link		http://www.cstaricalcutta.gov.in/images/coreskill_CTS.pdf	Online Trail Test Links
1	Engineering Drawing – Introduction Introduction to Engineering Drawing and Drawing Instruments – • Conventions • Viewing of engineering drawing sheets. • Method of Folding of printed Drawing sheet as per BIS SP: 46-2003	https://drive.google.com/file/d/1xy3xWKSkw_FDgLmk6dtG7FAXQWwHEm-Y/view?usp=sharing https://drive.google.com/file/d/16ofBpkAJsZXypu6mmU8ZB-tW5TDkT51R/view?usp=sharing	https://youtu.be/z4xZmBpXlzQ https://youtu.be/kBh156P1Mt4 https://youtu.be/sfyOJD0YMe8 https://youtu.be/aYZn018E2Ok https://youtu.be/ldVKy_CflyM https://youtu.be/JwnVbf5qvOg https://youtu.be/tHAzu8tSVOs https://youtu.be/vjLA7CxYoz0	https://docs.google.com/forms/d/e/1FAIpQLSc5DDWnlhZUCRON3cTBZCyCPMtpt3xJ1uQayHg96unYYxoBsw/viewform?usp=sf_link https://docs.google.com/forms/d/e/1FAIpQLSdpQuicFkciRFhwJ-j_oRbYp5O_I4VDdhQQM-EGU9kRbPJLzw/viewform?usp=sf_link https://docs.google.com/forms/d/e/1FAIpQLSdUZ52yuuWt6ZOPM5_IzQBkXYluDjNWHBwyvDwksIOLX3ka6g/viewform?usp=sf_link https://docs.google.com/forms/d/e/1FAIpQLSevzmKcPE7jIAT-Mou-IYfAlef-SLfdbnkEjIbAKtrc7t32Qw/viewform?usp=sf_lihttps://docs.google.com/forms/d/e/1FAIpQLSevzmKcPE7jIAT-Mou-IYfAlef-SLfdbnkEjIbAKtrc7t32Qw/viewform?usp=sf_l
2	Drawing Instrument • Drawing board, T-square, Drafter (Drafting M/c), Set squares, Protector, Drawing Instrument Box (Compass, Dividers, Scale, Diagonal Scales etc.), pencils of different grades, Drawing pins/ Clips	https://drive.google.com/file/d/1ldoz713EQPhv5U2FgLeLxiZpZpuETbh6/view?usp=sharing https://drive.google.com/file/d/1Wiq19XUPWKxbCoaYkG0z5HujvKplqgLA/view?usp=sharing https://drive.google.com/file/d/1DAeRiT7n3OHYXc7-Xl1VvQVtOtk8csHz/view?usp=sharing	https://youtu.be/ZOmtz9ef3QU https://youtu.be/y9bo0NVRDLI	
3	Free hand drawing of – • Lines, polygons, ellipse etc. • Geometrical figures and blocks with dimension • Transferring measurement from the given object to the free hand sketches. • Solid objects – Cube, Cuboids, Cone, Prism, Pyramid, Frustum of Cone with dimensions. • Free hand drawing of hand tools and measuring tools, simple fasteners (nuts, bolts, rivets etc.) trade related sketches	https://drive.google.com/file/d/1yDICAcP14JEHvTr9hdL2PZDzy0uM75ip/view?usp=sharing https://drive.google.com/file/d/15X229QeA_7b-CuSGcnnCOogUWoSFX1WK/view?usp=sharing	https://youtu.be/jjqVmihv5pM?list=RDCMUcNQHebTzfRahptcsmuOVufg https://youtu.be/PKGG0dTRbnE https://youtu.be/jBDHAGiHkIA https://youtu.be/XO-B3o9vfmA	

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3			https://youtu.be/wYUGoV4fH-o	OffLine Question paper Pdf Links
			https://youtu.be/BjcwQHjJfE	https://drive.google.com/file/d/1o9mU-oTM833ZG3dlfVfaRI3hULb_2L5v/view?usp=sharing
			https://youtu.be/OQCCHu_XqZQ	
			https://youtu.be/1tNYiWzeu-c?list=RDCMUCNQHebTzfRahptcsmuOVufg	https://drive.google.com/file/d/1iVE_Ppk3pe-glktBpBrbisacfHDKEFu3/view?usp=sharing
4	Lines • Definition, types and applications in drawing as per BIS: 46- 2003 • Classification of lines (Hidden, centre, construction, extension, Dimension, Section) • Drawing lines of given length (Straight, curved) • Drawing of parallel lines, perpendicular line • Methods of Division of line segment	https://drive.google.com/file/d/1yag7MG0uRVL2MI5UIbPjRgvVEvgXnNM1/view?usp=sharing	https://youtu.be/tDYqtA_5tN4	
			https://youtu.be/T6w3qoqKHR0	https://drive.google.com/file/d/1wcHmXxM3prWvP3RjWvoKVT45MfP15St/view?usp=sharing
		https://drive.google.com/file/d/1NwCHSicDQ3p8DYXkKV0x-VE_Sn0i5cHj/view?usp=sharing	https://youtu.be/Qo2_-vfn9_Q	
		https://drive.google.com/file/d/10_H2u_JuL4ODpMFdVJqYxZvmBcdt5Ygl/view?usp=sharing	https://youtu.be/KGfJpFU-BVs	https://drive.google.com/file/d/1-8HdOeXY8iNhCTxLITeFdNfJ1-gKR5Of/view?usp=sharing
			https://youtu.be/sYJ7w-mGVmQ	
5	Drawing of Geometrical figures: Definition, nomenclature and practice of – • Angle: Measurement and its types, method of bisecting. • Triangle: different types • Rectangle, Square, Rhombus, Parallelogram. • Circle and its elements • Different polygon and their values of included angles. Inscribed and circumscribed polygons	https://drive.google.com/file/d/1ca-IJU2bu_TKka-1fCz6ZbFUQxOfDDBT/view?usp=sharing	https://youtu.be/RUxHx5nmN7Q	https://drive.google.com/file/d/19MQEuvI9xYJnDPfmixSVRCfhnGJto_Lk/view?usp=sharing
		https://drive.google.com/file/d/1eOzMI2H-7GD5LczgVumA7QHZ3x5U30ex/view?usp=sharing	https://youtu.be/NzcTKGxwCCE	
		https://drive.google.com/file/d/1JpeBu3Dpf4toO53f2wogLoOzd9g8vu6v/view?usp=sharing	https://youtu.be/avJ81eKT91U	
		https://drive.google.com/file/d/1k127tGKm1zrIRYNkdY-OBPfH3j5XJIAJ/view?usp=sharing	https://youtu.be/lnxluB5oXLU	
		https://drive.google.com/file/d/1eOzMI2H-7GD5LczgVumA7QHZ3x5U30ex/view?usp=sharing	https://youtu.be/zPX6rSJl0g	
			https://youtu.be/teNd4yDfoE	

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5			https://youtu.be/Ko6z-v4EQzc	
			https://youtu.be/9gBA8_6AMag	
			https://youtu.be/9vuJ3W0uD_8	
			https://youtu.be/9NmO1Bq-oWg	
			https://youtu.be/5mcc_9K4H9Y?list=RDCMUCkCk0nvNyWhEOlge9JtDLdg	
6	Lettering & Numbering → Single Stroke, Double Stroke, Inclined.	https://drive.google.com/file/d/1_GHBVqNr92TFpKXgYzb7QfbHWmjOmsDP/view?usp=sharing	https://youtu.be/jAFCq5-Sw8Q	
			https://youtu.be/jBg-6HJ2lrA	
			https://youtu.be/onJlaSAkies?list=RDCMUCkCk0nvNyWhEOlge9JtDLdg	
7	Dimensioning and its Practice • Definition, types and methods of dimensioning (functional, non-functional and auxiliary) • Position of dimensioning (Unidirectional, Aligned) • Types of arrowhead • Leader line with text • Symbols preceding the value of dimension and dimensional tolerance.	https://drive.google.com/file/d/1VhleKL5CoWYqmtEcTleYBUzhc6PoVnVz/view?usp=sharing	https://youtu.be/A8qCfrkh7i4	
			https://youtu.be/kf01kQthhVs	
		https://drive.google.com/file/d/1VhleKL5CoWYqmtEcTleYBUzhc6PoVnVz/view?usp=sharing	https://youtu.be/4mIS2DERD70	
			https://youtu.be/6wqYyIOqdlw	
8	Sizes and layout of drawing sheets • Selection of sizes • Title Block, its position and content • Item Reference on Drawing Sheet (Item list)	https://drive.google.com/file/d/16ofBpkAJsZXypu6mmU8ZB-tW5TDkt51R/view?usp=sharing	https://youtu.be/QbsE-7mm678	
			https://youtu.be/xJgbgHhGvSs	
9	Method of presentation of Engg. Drawing • Pictorial View • Orthographic View • Isometric View	https://drive.google.com/file/d/1iMV44eiO-HqP_aP-DUHUtVEPc-sO4BCv/view?usp=sharing	https://youtu.be/IdRKnOkGJFs	
		https://drive.google.com/file/d/1LpCcxDv9NVMIt2_Z4pN9I4oOIMrN5HGR/view?usp=sharing	https://youtu.be/UJzS5a1HppI	
		https://drive.google.com/file/d/1Vq0sHeQ1eYoC_1SrELTceQFwg601GlvR/view?usp=sharing	https://youtu.be/LaKNBXZ4sfA?list=RDCMUCNQHbTzfRahptcsmuOVufg	

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10	Symbolic representation – different symbols used in the trades • Fastener (Rivets, Bolts and Nuts) • Bars and profile sections • Weld, Brazed and soldered joints • Electrical and electronics element • Piping joints and fitting	https://drive.google.com/file/d/1Vq0sHeQ1eYoC_1SrELTceQFwg601GlvR/view?usp=sharing	https://youtu.be/Yc9RMyUA_6Q	
		https://drive.google.com/file/d/14gdZVfri1XzktCZHc9r3MgFKaBMsDDSG/view?usp=sharing	https://youtu.be/mVQMhGG0pvl	
		https://drive.google.com/file/d/1A1iojW_Y5aTxRQUwFbT-Ev5jw87Btz6a/view?usp=sharing	https://youtu.be/kbx1KL8pFug	
		https://drive.google.com/file/d/1swwpgps088HN1IDoeul3oZhQAdCDj9km/view?usp=sharing	https://youtu.be/H-h3o09skaQ	
10		https://drive.google.com/file/d/1UCRgLv1W6UQtMXi76EwKUHspjS1XzCVP/view?usp=sharing	https://youtu.be/AzPvCdFgCt8	OffLine Question paper Pdf Links
		https://drive.google.com/file/d/1swwpgps088HN1IDoeul3oZhQAdCDj9km/view?usp=sharing	https://youtu.be/JhGYPvJYVQw	
			https://youtu.be/huEM80ISFs	https://drive.google.com/file/d/1kv09ch8xcX9HMxWNUWAH1HH2Bb72QvZu/view?usp=sharing
		https://drive.google.com/file/d/15X229QeA_7b-CuSGcnnCOogUWoSFX1WK/view?usp=sharing	https://youtu.be/klUolxn8fPU	
			https://youtu.be/sCuNFvoBAPl	https://drive.google.com/file/d/1_Y0EBaSw5hqfniaML9JGzJtW2Dq7suo-/view?usp=sharing
			https://youtu.be/MGWqvD_tQFE	
11	Projections • Concept of axes plane and quadrant • Orthographic projections • Method of first angle and third angle projections (definition and difference) • Symbol of 1st angle and 3rd angle projection in 3rd angle.	https://drive.google.com/file/d/1ZcsOv-UGdcWR9K7nX9HR4Ux5bfEB2KdY/view?usp=sharing	https://youtu.be/iwlodVSc5JA	https://drive.google.com/file/d/1Xv5qVuYuy0RJwbjBxiHyy2sQnJoZFueg/view?usp=sharing
		https://drive.google.com/file/d/1Hm3MH8Y0wfbE1wO7hv7d9F1RHv1PqNOD/view?usp=sharing	https://youtu.be/EMHBJms_fo	
		https://drive.google.com/file/d/1gdUE3_8mP0HnohLrWNC7jIDOVg0iMLO8/view?usp=sharing	https://youtu.be/CYxWki4apJE	https://drive.google.com/file/d/1uWK_1wdl6conYj1k6BG-1hYpf9M7juw0/view?usp=sharing
		https://drive.google.com/file/d/1wxgTBR6rtv3pbEAdg9i4ErmqFiWji-mA/view?usp=sharing	https://youtu.be/X9Ow3fR2AFo	
			https://youtu.be/N9rlrw4fAU4	https://drive.google.com/file/d/1VZpvN7ic3WrRoFeVN-yfuvMLBeDNz5AX/view?usp=sharing
			https://youtu.be/wKaXW94AcfM	

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12	Orthographic projection from isometric projection	https://drive.google.com/file/d/1yAV8FW5OjNGeOWHh7J8OLutErw29GyCV/view?usp=sharing	https://youtu.be/d3eP_g5OKYg?list=RDCMUCNQHebTzfRahptcsmuOVufg	https://drive.google.com/file/d/1VOfeIUg4tWBK4dW-3QA3UBVKypSuevB/view?usp=sharing
		https://drive.google.com/file/d/1gdUE3_8mP0HnohLrWNC7jIDOVg0iMLO8/view?usp=sharing	https://youtu.be/7JpSSBVeSpl?list=RDCMUCNQHebTzfRahptcsmuOVufg	
			https://youtu.be/il3xv-olMv4?list=RDCMUCNQHebTzfRahptcsmuOVufg	https://drive.google.com/file/d/1O5_xc3QvfhaD-1yNCslzWGYHRAtVEPZ7/view?usp=sharing
			https://youtu.be/MmNih48uCag?list=RDCMUCNQHebTzfRahptcsmuOVufg	
			https://youtu.be/ntz5oM_AC2s	https://drive.google.com/file/d/1aJieKjUKRrgCM9Qp5-Pg_Wra_M7jO2uo/view?usp=sharing
12	Orthographic projection from isometric projection		https://youtu.be/F4oPYMAgBRo	
			https://youtu.be/ldRKnOkGJFs	https://drive.google.com/file/d/1sRIbuF7ckkILDluQ-bH6_VsX_6zJ3h_n/view?usp=sharing
13	Reading of fabrication drawing	https://drive.google.com/file/d/1WgeW1V66f1EKJoXGn0Y-dOnVzTYdjaKH/view?usp=sharing	https://youtu.be/qyCsNsmsGjI	
			https://youtu.be/jIDWH2ST5yY	https://drive.google.com/file/d/1cL-g2GLHyIGbyThYKtcBEMFnnJng2vrH/view?usp=sharing
			https://youtu.be/t-E8FTPl5mM	
			https://youtu.be/3ZtSvIhCRU4?list=RDCMUCsZ-6T4LEiHtxAeVAF7PcCg	
14	Trade Hand Tools	https://drive.google.com/file/d/19AIUgYuYcm07XJhuE6ZcgI36_luvZwYx/view?usp=sharing	https://youtu.be/_4mI8S7iws	
			https://youtu.be/w8Tns77ACBo	
			https://youtu.be/-ke2KUopsSI	
			https://youtu.be/pg30dkubeyY	
			https://youtu.be/YQzAoMoGI7Y	
15	AITT Papers	I Year Engineering Drawing NIMI Book	https://youtu.be/wtDTL0n22sQ?list=RDCMUCsZ-6T4LEiHtxAeVAF7PcCg	https://drive.google.com/file/d/1savQgLnA3FAyq4LpX7snYzW0EqB3DzzG/view?usp=sharing
		https://drive.google.com/file/d/1oZ0eqhph4N1TA-RNKUKXNOpvvhn7l-1v/view?usp=sharing	https://youtu.be/CEGfiZ9--sk?list=RDCMUCsZ-6T4LEiHtxAeVAF7PcCg	

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