

| ADVANCED CONCEPTS OF GD&T - 3 Sessions | | ASME Y14.5M-1994 | |
|---|--|---|------------------|
| Class | Chapter | Goal / Topics | Exercise |
| 1 | | <ul style="list-style-type: none"> ▪ Course introduction | |
| | 1 | <ul style="list-style-type: none"> ▪ Fundamentals review | 1-1, 1-2 |
| | 1 | <ul style="list-style-type: none"> ▪ GD&T and blueprint reading skills survey | |
| | 2 | <ul style="list-style-type: none"> ▪ Product design impact | 2-1 |
| | 3 | <ul style="list-style-type: none"> ▪ Introduction to functional dimensioning | 3-1, 3-2 |
| | 7 | <ul style="list-style-type: none"> ▪ Drawing interpretation | 7-3 |
| | | LUNCH | |
| | 9 | <ul style="list-style-type: none"> ▪ How to specify and interpret rigid / flexible parts | 9-1 |
| | 10 | <ul style="list-style-type: none"> ▪ How to specify and interpret restraint notes on non-rigid parts | 10-1 |
| | 11 | <ul style="list-style-type: none"> ▪ How to specify a restrained part datum system on non-rigid parts | 11-1 thru 11-4 |
| | 12 | <ul style="list-style-type: none"> ▪ How to choose tolerances for form control applications: seal, assembly, support, flatness | 12-1 thru 12-4 |
| 2 | 13 | <ul style="list-style-type: none"> ▪ The datum system: when to use, common errors, | 13-1, 13-3 |
| | 14 | <ul style="list-style-type: none"> ▪ How to specify and interpret the ten common datum feature types | 14-1 thru 14-8 |
| | 15 | <ul style="list-style-type: none"> ▪ Datum target applications | 15-1, 15-3, 15-4 |
| | | LUNCH | |
| | 16 | <ul style="list-style-type: none"> ▪ Special datum feature applications: screw threads, gears, splines, temporary datum features | 16-1, 16-2 |
| | 17 | <ul style="list-style-type: none"> ▪ Tolerance or position: modifier usage, loss function curve types, and applications | 17-1 |
| | 18 | <ul style="list-style-type: none"> ▪ The effects of simultaneous and separate requirements | 18-1 |
| | 19 | <ul style="list-style-type: none"> ▪ How to specify and interpret composite position tolerancing | 19-1 |
| 3 | 20 | <ul style="list-style-type: none"> ▪ How to specify and interpret multiple single-segment position tolerancing | 20 |
| | 21 | <ul style="list-style-type: none"> ▪ How to specify and interpret tolerance of position applications with a conical tolerance zone | 21 |
| | 22 | <ul style="list-style-type: none"> ▪ When to use profile controls, three profile myths | 22-1, thru 22-3 |
| | 23 | <ul style="list-style-type: none"> ▪ How to specify and interpret simultaneous and separate requirements for profile | 23-1 |
| | 24 | <ul style="list-style-type: none"> ▪ How to specify and interpret composite profile tolerancing | 24-1, 24-2 |
| | | LUNCH | |
| | 25 | <ul style="list-style-type: none"> ▪ How to specify and interpret multiple single-segment profile | 25-1 |
| | 26 | <ul style="list-style-type: none"> ▪ How to interpret profile applications | 26-1, thru 26-4 |
| | | <ul style="list-style-type: none"> ▪ Tolerancing discussion: ten worst dimensioning habits, dimensioning exercise | Handouts |
| | | <ul style="list-style-type: none"> ▪ Advanced concepts of GD&T skills survey | |
| Optional | <ul style="list-style-type: none"> ▪ Drawing review of customer drawings for proper selection of datum features and correct application of GD&T | Company supplied drawings | |