
INDEX

A

Accenture 2004 workforce survey, 3
ADDIE model: analyze phase of, 7, 8*fig*; deficiencies of, 10; description of five phases of, 6–7; design phase of, 7–8*fig*; develop phase of, 9*fig*; evaluate phase of, 10, 11*fig*; implement phase of, 9–10*fig*; questions answered by, 7*fig*. *See also* ISD (instructional system design)
Affinity diagram technique:
DMADDI analysis phase use of, 127–128, 137; DMADDI measure phase use of, 99–100*fig*
Akao, Y., 147
American Society for Quality Control, 147
American Society of Training Directors (ASTD), 189
Analytical hierarchy process (AHP), 106, 107*t*, 115–116*t*, 118
Analytical Hierarchy Process Matrix, 116*t*
Analyze phase. *See* DMADDI analyze phase

Aristotle, 4
Audio/narration (storyboard), 152

B

Bank of America, 18
Black Belt (or coach): definition of, 35; DMADDI model on, 59
Bloom, B. S., 5, 6, 8
Brainstorming rules, 100–101
Brainstorming tools: affinity diagram technique, 99–100*fig*; random picture technique, 98–99; random word technique, 14, 97–98; Six Thinking Hats technique, 207; wishful thinking technique, 98, 114
Bridging idea, 97
Business case (project charter): described, 69; evaluating the, 70–71
Business requirement identification: brainstorming tools used in, 97–100*fig*; refining the list, 101–102; roles for brainstorming, 100–101; sources for fleshing out, 94–97, 95*fig*

Business requirement target tools: for creating measurable targets, 108–109; diagram of, 109*fig*–112*t*; pros and cons of, 112*t*; quality functional deployment (QFD), 110–111*t*, 117*t*; requirements statement worksheet, 110*t*, 118*t*
Business requirements: identifying, 94–102; a note about, 111–112; prioritizing, 102*fig*–108*t*; transferring to the development team, 113*e*–118*t*; translating into measurable targets, 108–112*t*
Business requirements prioritizing tools: analytical hierarchy process (AHP), 106, 107*t*, 115–116*t*; diagram of, 102*fig*; pairwise comparison, 102*fig*, 103–105*t*; pros and cons of, 108*t*; requirement tabulation, 106*t*; silent multivoting, 102*fig*, 106, 108; weighting, 102*fig*, 103*t*
Business review team: DMADDI model on, 59; forming the DMADDI, 62–66

Business review teams: analyze phase role of, 122*fig*; project charter listing of, 70

C

Carey, L., 12

Case study. *See* Depository Trust & Clearing Corporation (DTCC) case study

CDAM (combine, delete, add, modify) tool, 93, 101, 162

Celebrating, 180

CEOs: business requirement agenda of, 96; training program dissatisfaction by, 3

Checklists: DMADDI Analyze Checklist, 135*e*; DMADDI Define Checklist, 87*e*–88; DMADDI Design Checklist, 154*e*; DMADDI Develop Checklist, 168*e*; DMADDI Implement Checklist, 179*e*; DMADDI Measure Checklist, 113*e*. *See also* Six Sigma tools

Clarke, D., 140

Client Voice of the Customer (VOC) techniques (Home Depot), 18

Communication tools: DMADDI define phase storyboard, 75, 76*e*, 89–90; DMADDI design phase storyboard, 151–153, 156; lesson plans, 149–150

Companies: advantages of Six Sigma to, 16; listening posts within, 95. *See also* Stakeholders

Controls: common mistakes made using FMEA, 166–167; develop phase development of, 162–167; FMEA (failure mode effects analysis) development, 162–166

CTPs (critical to the process): described, 39; identifying issues important to, 46; as TROI component, 39*fig*

CTQ (critical to quality): described, 39; DMAIC analyze phase use of, 201; DMAIC define phase use of, 195*fig*–196; identifying issues important to, 46; as TROI component, 39*fig*

Cumulative Percentages, 134*t*

Customer Feedback on Exercises, (DTCC case study), 198*fig*

Customer Feedback on Navigation (DTCC case study), 198*fig*

Customers: internal and external, 19–20*fig*, 63*fig*; SIPOC (supplier, inputs, process, and output customer diagram) on, 190*fig*–191; Six Sigma focus on the, 19–20; top-down chart of customer training process, 191*fig*; VOC (voice of the customer), 18, 19, 30–31

D

Data collection: identifying business requirements, 94–97, 95*t*; project data, 177

De Bono, E., 207

Decision matrix, 143–145

Define phase. *See* DMADDI define phase

Deployment flowchart, 128–130, 129*fig*, 136*fig*–137

Depository Trust & Clearing Corporation (DTCC) case study: analyze phase of, 201–207; background information on, 187–188; control phase of, 209–211; define phase of, 189–196; improve phase of, 207–209; improvements as result of Six Sigma, 209*fig*, 210*fig*; measure phase of, 196–201; organizational structure of training used at, 188–189; Quick Win Evaluation Matrix used by, 192–193*t*, 194; Six Sigma approach used by, 18, 187. *See also* DMAIC model; E-learning training

Design charter, 124

Design phase. *See* DMADDI design phase

Design teams: analyze phase role of, 122*fig*; assembling a, 123–124, 125*e*; Stakeholder Analysis Form used by, 125*e*

Designing Training Programs (Ford), 140

Development resource identification, 153

Development team: DMADDI

model on, 59; transferring business requirements to, 113*e*–118*t*

DFSS (Design for Six Sigma): compared to DMEDI, 24*fig*; definition of, 16*e*, 28; as development methodology, 18. *See also* Six Sigma

Dick and Carey model, 12–13

Dick, W., 12

DMADDI Analyze Checklist, 135*e*

DMADDI analyze phase: activities during, 123*fig*; overview of, 54–55*fig*, 120; project organization during, 122*fig*; road map of, 120–122, 121*fig*; steps in, 123–136; tools used during, 127–129*fig*, 136*fig*–138

DMADDI analyze phase steps: 1: assembling a design team, 123–124, 125*e*; 2: identifying what needs to be learned, 124, 126–130; 3: validating and prioritizing what needs to be done, 130–134*fig*; 4: complete the analyze tollgate, 135*e*–136

DMADDI analyze phase tools: affinity diagram, 127–128, 137; deployment flowchart, 128–130, 129*fig*, 136*fig*–137; DMADDI Analyze Checklist, 135*e*; pareto charts, 133*fig*–134*fig*, 137–138

DMADDI Define Checklist, 87*e*–88

DMADDI define phase: business analysis during, 60–62*fig*; overview of, 52–53*fig*; road map of, 61*fig*; tools used during, 64–76, 84–90

DMADDI define phase steps: 1: form a business review team, 62–66; 2: develop and validate the project charter, 66–73; 3: complete the define tollgate, 73–84

DMADDI define phase tools: DMADDI Define Checklist, 87*e*–88; DMADDI Storyboard Template, 89–90; DMADDI Tollgate Preparation Worksheet, 88*e*–89*e*; project charter, 66, 68–73, 74*e*, 86*e*–87; Stakeholder Analysis Form, 64–65*e*, 66, 67*e*,

- 84–85*e*; Storyboard Template, 75, 76*e*, 89–90
- DMADDI Design Checklist, 154*e*
- DMADDI design phase: activities of, 142*fig*; comparing ISD design methodology to, 140–143*t*; delivery solution identified during, 145; overview of, 54–55*fig*, 139; road map of, 139–140*fig*; steps in, 143–154*e*; tools used during, 146–148*t*, 151–153, 154–156
- DMADDI design phase steps: 1: identifying the learning platform, 143–145; 2: converting objectives into learning activities, 145–148; 3: creating communication tool, 148–153; 4: identifying development resources, 153; 5: completing design tollgate, 153–154
- DMADDI design phase tools: DMADDI Design Checklist, 154*e*; lesson plans, 149–150, 154–155*e*, 156; quality functional deployment (QFD), 146–148*t*; storyboard, 151–153, 156
- DMADDI Develop Checklist, 168*e*
- DMADDI develop phase: activities during, 159*fig*; overview of, 56, 57*fig*, 157; road map of, 157–160, 158*fig*; steps in, 160–168; tools used during, 160–162, 161*fig*, 167, 168*fig*–170*e*
- DMADDI develop phase steps: 1: identifying the factors, 160–162, 161*fig*; 2: developing controls, 162–167; 3: validating the outputs of develop phase, 167; 4: complete the develop tollgate, 167–168*e*; 5: preparing presentation and updating storyboard, 178–179*t*
- DMADDI develop phase tools: DMADDI Develop Checklist, 168*e*; FMEA (failure mode effects analysis), 162–167, 169–170*e*; Ishikawa (fishbone) diagram, 160–162, 161*fig*, 168*fig*–169
- DMADDI Implement Checklist, 179*e*
- DMADDI implement phase: activities of, 174*fig*; comparing ISD implementation with, 173–175; final word on, 180; overview of, 56, 57*fig*, 172; road map of, 172–173*fig*; steps in, 176–180; tools used during, 177–179*t*, 180–181
- DMADDI implement phase steps: 1: revisiting project requirements, 176; 2: validating perspective of the stakeholders, 177; 3: gathering and analyzing project data, 177; 4: developing a reporting action plan, 177–179*t*; 5: preparing presentation/ updating storyboard, 178–179*t*; 6: completing implement tollgate, 179*e*; 7: celebrate, 180
- DMADDI implement phase tools, 179*e*; accounting project metrics table, 179*t*; reporting action plan, 177–178*t*, 180*t*–181; storyboards, 177–179*t*
- DMADDI Measure Checklist, 113*e*
- DMADDI measure phase: activities of, 94*fig*; overview of, 54*fig*, 91–92; road map of, 92–94, 93*fig*; steps in, 94–118*t*; tools used in, 97–118*t*
- DMADDI measure phase steps: 1: identifying business requirements, 94–102; 2: prioritizing business requirements, 102*fig*–108*t*; 3: translating business requirements into measurable targets, 108–112*t*; 4: complete the measure tollgate, 112; 5: transfer requirements to the development team, 113*e*–118*t*
- DMADDI measure phase tools: affinity diagram technique, 99–100*fig*; analytical hierarchy process (AHP), 102*fig*, 106, 107*t*, 115–116*t*, 118; for brainstorming, 97–101, 114; for converting business requirements to targets, 109*fig*–112*t*; DMADDI Measure Checklist, 113*e*; pairwise comparison, 102*fig*, 103–106, 115; for prioritizing business requirements, 102–108*t*; quality functional deployment (QFD), 109*fig*, 110–111*t*, 117*t*; random word technique, 14, 97–98, 114; requirement tabulation, 106*t*; requirements statement worksheet, 110*t*, 118*t*; silent multivoting, 102*fig*, 106, 108; weighting, 102*fig*, 103*t*, 114–115; wishful thinking, 98, 114
- DMADDI model: analyze phase of, 54–55*fig*, 120–138; brief recap of, 175; define phase of, 52–53*fig*, 60–90; described, 47–48, 51–52; design phase of, 55–56*fig*, 139–156; develop phase of, 56, 57*fig*, 157–171; evaluation in, 58; implement phase of, 56, 57*fig*, 172–181; measure phase of, 54*fig*, 91–119; process of, 58*fig*; project organization using, 59*fig*; road map of, 52*fig*; tollgate reviews used in, 56–58
- DMATIC model: analyze phase of, 26, 27*fig*; Bank of America's application of, 18; comparison of DMEDI and, 24*fig*; control phase of, 27, 29*fig*; define phase of, 25*fig*; described, 22, 24; improve phase of, 26, 23*fig*; improvement process questions, 24*fig*; measure phase of, 25–26*fig*; pareto charts used in, 196, 203, 205*fig*, 206*fig*. *See also* Depository Trust & Clearing Corporation (DTCC) case study
- DMEDI model: define phase of, 30, 31*fig*; described, 28, 30; develop phase of, 32, 34*fig*; explore phase of, 31, 33*fig*; implement phase of, 32–33, 35*fig*; measure phase of, 30–31, 32*fig*; question process of, 30*fig*
- DPMO (defects per million opportunities), 20–21*t*

E

- E-learning training: functional deployment process map of, 191–192; LMS (learning management system) used for, 188, 189; organizational structure of,

- 188–189; Six Sigma improvements to DTCC use of, 209*fig*, 210*fig*. *See also* Depository Trust & Clearing Corporation (DTCC) case study
- Evaluating Training Programs*, 5
- Evaluation: ADDIE model approach to, 10, 11*fig*; of business case (project charter), 70–71; DMADDI model approach to, 58; formative and summative, 10; of goal statement (project charter), 71–72; Meeting Evaluation Form, 82*t*–83*t*; Quick Win Evaluation Matrix, 192–193*t*, 194; SMART criteria used for, 70–73
- External customers, 19–20*fig*, 63*fig*
- External data, 95
- F**
- Feigenbaum, M. J., 147
- Final Pareto Chart of Objectives, 134*fig*
- Fishbone (Ishikawa) diagram, 160–162, 161*fig*, 168*fig*–169
- Flowchart (deployment), 128–130, 129*fig*
- FMEA (failure mode effects analysis): common mistakes to avoid, 166–167; development of, 162–166; DTCC case study use of, 192, 194, 208; NVA activities analysis using, 192, 194; purpose and process of, 169; sample, 170*e*; validating development phase outputs using, 167
- Ford, D. J., 140
- Formative evaluation, 10
- “Four Houses of Quality” approach, 147*fig*
- Frequency Table (DMADDI analyze phase), 132*t*
- Functional deployment process map, 191–192
- G**
- Gagné, R., 5, 6, 13
- Gauss, C. F., 17, 18*fig*
- General Electric (GE), 17
- Goal statement (project charter): described, 69; evaluating the, 71–72
- Graphics (storyboard), 152
- H**
- Home Depot, 18
- Human resources (HR), Six Sigma use by, 18–19
- I**
- IDS (instructional systems design): described, 4; Dick and Carey, 12–13; history and time line of, 4–6, 5*fig*; introduction to, 3–4
- IDS models: ADDIE, 6–11*fig*; ROPES, 11–12
- Implementation leader, 35
- Instruction events (Gagné), 13
- Internal customers, 19–20*fig*, 63*fig*
- Internal data, 95
- ISD (instructional system design): comparing DMADDI design to, 140–143*t*; comparing DMADDI implement phase to, 173–175; used as development methodology, 40–46; issues addressed in, 43*fig*; Kirkpatrick evaluation approach used in, 42–46, 58; process of, 42*t*; shortcomings of, 41–42. *See also* ADDIE model
- Ishihara, K., 147
- Ishikawa diagram, 160–161*fig*, 168*fig*–169
- Ishikawa, K., 147
- J**
- Jiro, K., 99
- Job-task analysis, 124
- Juran, J. M., 147
- K**
- Kirkpatrick, D., 5, 11, 42
- Kirkpatrick evaluation method: described, 42–43*t*, 58; Kirkpatrick assumption, 44–46, 45*fig*; problems with, 44; solution to, 46
- KJ method (or affinity diagram), 99–100*fig*
- Kruse, K., 4
- L**
- Leadership group (or council), 35
- Learning: converting objectives into activities for, 145–148; identifying platform for, 143–145
- Learning needs: identifying, 124, 126–130; validating and prioritizing, 130–134*fig*. *See also* Training programs
- Lesson plans: approving, 150; components of, 149–150; creating, 149; purpose and process of, 154, 156; sample, 155*e*
- Listening posts, 95
- LMS (learning management system), 188, 189
- M**
- Master Black Belt. *See* Black Belt (or coach)
- Matrix: Analytical Hierarchy Process Matrix, 116*t*; decision, 143–145; Quality Functional Deployment Matrix, 117*t*, 148*t*; Quick Win Evaluation Matrix, 192–193*t*, 194. *See also* Six Sigma tools
- Measure phase. *See* DMADDI measure phase
- Measurement Plan (DTCC case study), 197*t*
- Meeting Evaluation Form, 82*t*–83*t*
- Meeting facilitator, 78*t*–79*t*, 80
- Milestones (project charter), 69
- Minutes taker, 78*t*, 79–80
- Mizuno, S., 147
- Modified Failure Mode and Effects Analysis, 164*e*
- Moshinskie, J., 11
- Motorola, 17, 21
- Multi-Vari Chart of Hours by Resource (DTCC case study), 206*fig*
- Multivoting, 102*fig*, 106, 108

N

- Needs assessment (Dick and Carey model), 12
- Needs assessment (DMADDI analyze phase), 124
- NVAs (non-value-added activities), 192

O

- Objectives: Dick and Carey model, 13; translating business requirements into targets or, 108–112*t*
- On-screen text section (storyboard), 152
- Opportunity statement (project charter), 69

P

- Pairwise comparison, 102*fig*, 103–105*t*
- Pareto charts: DMAIC model use of, 196, 203, 205*fig*, 206*fig*; Pareto Chart of Objectives (Final), 134*fig*; Pareto Chart of Objectives with Frequency of Occurrence, 133*fig*; Pareto Chart of Rework by Phase (DTCC case study), 206*fig*; Pareto Chart of Root Causes of Rework (DTCC case study), 205*fig*; Pareto Segmented Chart of Objectives, 133*fig*; purpose and use of, 137–138. *See also* Six Sigma tools
- Pricewaterhouse-Coopers, 28
- Process Capability After Six Sigma, 210*fig*
- Process Capability for All Development Hours (DTCC case study), 202*fig*
- Process Capability for Development Hours (DTCC case study), 199*fig*
- Process Capability for Rework (DTCC case study), 200*fig*
- Process mapping (SIPOC), 190*fig*–191
- Process owners, 36

- Project champions: analyze phase role of, 122*fig*; definition of, 35; DMADDI model on, 59
- Project charter: as define phase tool, 86*e*–87; developing, 66, 68–70; sample, 73, 74*e*; validating, 70–73
- Project information (storyboard), 151
- Project leaders: analyze phase role of, 122*fig*; DMADDI model on, 59
- Project scope (project charter), 69

Q

- Qualitative analysis, 192
- Quality* (Akaio), 147
- Quality Functional Deployment Matrix, 117*t*, 148*t*
- Quality functional deployment (QFD): DMADDI design phase use of, 146–148*t*; DMADDI measure phase use of, 109*fig*, 110–111*t*, 117*t*
- Quick Win Evaluation Matrix, 192–193*t*, 194

R

- Random picture technique, 98–99
- Random word technique, 14, 97–98
- Regression Analysis of Rework (DTCC case study), 205*fig*
- Reporting action plan, 177–178*t*, 180*t*
- Requirement tabulation, 106*t*
- Requirements statement worksheet, 110*t*, 118*t*
- Requirements-driven metrics (RDM), 101–102
- Research data collection, 95
- Results Table (DTCC case study), 208*t*
- Root Cause Analysis Rework (DTCC case study), 204*fig*
- ROPES model, 11–12
- Rules of brainstorming, 100–101

S

- The Science of Learning and the Art of Teaching* (Skinner), 5

- Screen label (storyboard), 151–152
- Shewhart, W., 17, 18*fig*
- Silent multivoting, 102*fig*, 106, 108
- SIPOC (supplier, inputs, process, and output customer diagram), 190*fig*–191
- Six Sigma: adopted by the training world, 18–19; advantages to companies, 16; benefits of using, 46–47; DTCC e-learning using approach of, 18, 187–211; history/time line of, 17–18*fig*; important concepts of, 19–22, 23*t*; improvements as result of, 209*fig*, 210*fig*; using ISD as development methodology, 40–46; organizational structure of, 34–36; shortcomings of, 36; TROI (true return on investment) and, 38–39*fig*; working definition of, 15–17
- Six Sigma coach. *See* Black Belt (or coach)
- Six Sigma concepts: the customer, 19–20*fig*; DPMO (defects per million opportunities), 20–21*t*; summary of, 23*t*; tollgate review, 21–22
- Six Sigma models: determining which one to use, 47–48; DFSS (Design for Six Sigma), 16*e*, 18, 24*fig*, 28; DMADDI, 47–48; DMADV, 28; DMAIC, 18, 24*fig*–28*fig*; DMEDI, 28, 30*fig*–34*fig*, 35*fig*–36; illustrated diagram of Six Sigma model, 47*fig*
- Six Sigma tools: affinity diagrams, 127–128; brainstorming, 14, 97–100*fig*, 114, 207; business requirement, 102–112*t*, 115–117*t*, 118*t*; CDAM (combine, delete, add, modify), 93, 101, 162; communication, 75, 76*e*, 89–90, 149–153, 156; CTQ (critical to quality), 39*fig*, 46, 195*fig*–196, 201; deployment flowchart, 128–130, 128–130, 129*fig*, 136*fig*–137; DMADDI analyze phase, 127–129*fig*, 136*fig*–138; DMADDI define phase, 64–76, 84–90; DMADDI design phase,

146–148*t*, 151–153, 154–156;
 DMADDI develop phase, 160–
 162, 161*fig*, 167, 168*fig*–170*e*;
 DMADDI implement phase,
 177–179*t*, 180–181; DMADDI
 measure phase, 97–118*t*; FMEA
 (failure mode effects analysis),
 162–167, 170*e*, 192, 194, 208;
 functional deployment process
 map, 191–192; for identifying
 learning requirements, 126–
 127; lesson plans, 149–150, 154,
 155*e*, 156; LMS (learning man-
 agement system), 188, 189;
 multivoting, 102*fig*, 106, 108;
 pairwise comparison, 102*fig*,
 103–105*t*; quality functional
 deployment (QFD), 109*fig*,
 110–111*t*, 117*t*, 146–148*t*; ran-
 dom picture technique, 98–99;
 random word technique, 14,
 97–98; reporting action plan,
 177–178*t*, 180*t*; requirements
 statement worksheet, 110*t*, 118*t*;
 requirements-driven metrics
 (RDM), 101–102; SIPOC (sup-
 plier, inputs, process, and output
 customer diagram), 190*fig*–191;
 Stakeholder Analysis Form,
 64–65*e*, 66, 67*e*, 84–85*e*, 125*e*;
 storyboards, 75, 76*e*, 89–90,
 151–153, 156, 178–179*t*; VOC
 (voice of the customer), 19,
 30–31, 39, 46, 194*t*–195;
 Weighting table, 102*t*, 103*t*;
 wishful thinking technique, 98,
 114. *See also* Checklists; Matrix;
 Pareto charts; Tollgate review
 Six Thinking Hats technique,
 207–208
 Skinner, B. F., 5, 6
 SMART criteria: evaluating busi-
 ness case using, 70–71; evaluat-
 ing goal statement using, 71–72;
 evaluating opportunity state-
 ment using, 72–73
 Smith, B., 17, 18*fig*
 Southern Illinois University, 4
 Stakeholder Analysis Form:
 DMADDI analysis phase use of,

125*e*; DMADDI define phase
 use of, 64–65*e*, 66, 67*e*, 84–85*e*
 Stakeholders: CEOs as, 3, 96;
 DMADDI analysis phase analy-
 sis of, 125*e*; DMADDI define
 phase analysis of, 64–65*e*, 66,
 67*e*, 84–85*e*; reporting action
 plan for, 177–178*t*, 180*t*; validat-
 ing perspective of, 177. *See also*
 Companies
 Storyboards: DMADDI define
 phase, 75, 76*e*, 89–90;
 DMADDI design phase,
 151–153, 156; DMADDI
 develop phase, 178–179*t*
 Summative evaluation, 10

T

Team facilitator, 78*t*–79*t*, 80
 Team leaders: definition of, 36;
 DMADDI roles/responsibilities
 of, 77*t*, 79; leading team meet-
 ings, 84; meeting activities/tips
 for, 83
 Team meetings: Meeting Evalua-
 tion Form, 82*t*–83*t*; steps for
 planning, 80–82; tips for lead-
 ing, 84
 Team members: data collection
 using collaboration of, 95; defin-
 ition of, 36; DMADDI roles/
 responsibilities of, 78*t*–79*t*
 Thorndike, E., 4
 Tollgate Preparation Worksheet
 (DMADDI define phase),
 88*e*–89*e*
 Tollgate review: described, 21–22,
 75; DMADDI analyze phase
 completion of, 135*e*–136;
 DMADDI define phase comple-
 tion of, 73, 75–84; DMADDI
 design phase completion of,
 153–154; DMADDI implement
 phase completion of, 179*e*;
 DMADDI measure phase comple-
 tion of, 112. *See also* Six
 Sigma tools
 Tollgate review (DMADDI define
 phase): described, 75; questions

answered by, 75; storyboard
 template used for, 75, 76*e*,
 89–90; of team leadership skills,
 76–77; of team roles and re-
 sponsibilities, 77*t*–79*t*, 80

Tools. *See* Six Sigma tools
 Total Quality Management (TQM),
 16
 Training programs: business re-
 quirement identification and,
 96; dissatisfaction with, 3;
 DTCC e-learning approach to,
 18, 187–211; Requirements-dri-
 ven metrics (RDM) to measure,
 101–102. *See also* Learning
 needs
 TROI (true return on investment),
 38–39*fig*

U

U.S. Training and Development Journal, 5

V

Video clips (storyboard), 152
 VOB (voice of the business): con-
 verted into quantifiable mea-
 sures, 46; described, 39
 VOC Conversion Table, 194*t*
 VOC (voice of the customer): con-
 version table for, 194*t*–195;
 converted into quantifiable
 measures, 46; described, 19, 39;
 DMEDI exploration of, 30–31;
 Home Depot use of, 18
 Vuepoint Corporation, 11

W

Web sites: on instructional design
 training, 140; Kevin Kruse's
 learning guru, 4; on perfor-
 mance resources, 140; Southern
 Illinois University education
 program, 4
 Weighting table, 102*t*, 103*t*
 Welch, J., 17, 18*fig*
 Wishful thinking technique, 98, 114