Solar Project Due Diligence Training Course

Professional Development Training Course Outline

Category	Renewable Energy	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Solar Project Due Diligence Training Course designed to equip professionals with the skills required to evaluate solar PV projects, utility-scale solar farms, battery energy storage systems (BESS), distributed solar assets, and hybrid renewable energy projects before financial close, acquisition, refinancing, or investment. The course focuses on technical due diligence, financial due diligence, legal and regulatory due diligence, commercial assessment, ESG, environmental and social risk, project bankability, and investment risk management. Modern due diligence increasingly requires an integrated assessment of technical, legal, environmental, financial viability, and bankability considerations, particularly for hybrid solar-plus-storage projects.

Participants will learn how investors, lenders, developers, insurers, and technical advisers interrogate project documentation, validate energy yield assessments, CAPEX/OPEX assumptions, financial models, PPAs, EPC and O&M contracts, permits, land rights, grid connections, insurance, ESG risks, and counterparty exposure. The programme uses real-world case studies, due-diligence checklists, financial modelling exercises, risk registers, document reviews, scenario analysis, and investment committee simulations to develop practical decision-making capability. This approach reflects current professional training practices that emphasize interactive lectures, case studies, group discussions, and hands-on exercises.

Programme Curriculum

Solar Project Due Diligence Training Course

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Course Objectives

By the end of the training, participants will be able to:

1. Conduct end-to-end solar project due diligence across technical, financial, legal, commercial, ESG, and regulatory dimensions.
2. Evaluate solar resource assessments, energy yield studies, P50/P90 forecasts, degradation assumptions, and performance ratios.
3. Assess PV technology, module quality, inverter selection, BESS integration, engineering design, and technical performance risks.
4. Review CAPEX, OPEX, revenue assumptions, financial models, NPV, IRR, DSCR, LCOE, and sensitivity analysis.
5. Assess project bankability, investment readiness, lender requirements, and financial-close conditions.
6. Examine PPAs, EPC contracts, O&M agreements, warranties, guarantees, and key contractual risk allocations.
7. Identify land, permitting, licensing, grid-connection, regulatory, and legal risks affecting project viability.
8. Assess ESG, environmental and social safeguards, climate resilience, biodiversity, and stakeholder risks.
9. Evaluate counterparty, offtaker, sponsor, EPC contractor, equipment supplier, and credit risks.
10. Develop comprehensive solar project risk registers, mitigation strategies, and due-diligence reports.
11. Apply scenario analysis, sensitivity testing, downside cases, and risk-adjusted investment analysis.
12. Evaluate emerging solar-plus-storage, hybrid renewable energy, digital monitoring, cybersecurity, and lifecycle performance risks.
13. Prepare an investment-grade due-diligence recommendation suitable for lenders, investors, developers, boards, or investment committees.

Target Audience

1. Solar project developers and IPPs
2. Project finance professionals and investment analysts
3. Commercial and development banks
4. Private equity, infrastructure and renewable-energy investors
5. Technical advisers, engineers and consultants
6. Government, regulators and PPP/infrastructure authorities

7. EPC, O&M and asset-management professionals
8. Legal, ESG, insurance and risk-management professionals

Course Modules

Module 1: Solar Project Due Diligence Framework

- Solar project lifecycle and **investment decision gates**
- Scope and objectives of **technical, financial, legal and commercial due diligence**
- Due-diligence data rooms, information requests and document management
- **Bankability assessment** and red-flag identification
- Case Study: **Investment screening of a utility-scale solar PV project**

Module 2: Technical Due Diligence & Energy Yield

- Solar resource assessment, irradiation data and meteorological datasets
- **P50/P90 energy yield**, uncertainty analysis and degradation
- PV modules, inverters, trackers, transformers and BESS technology assessment
- Design review, performance ratio, availability and **loss-factor analysis**
- Case Study: **Independent technical review of a 100 MW solar-plus-storage project**

Module 3: Financial Due Diligence & Project Modelling

- Review of **CAPEX, OPEX, revenue and operating assumptions**
- NPV, IRR, DSCR, LCOE and debt-service analysis
- Financial model integrity, assumptions and formula checks
- **Sensitivity, scenario and downside-case analysis**
- Case Study: **Financial due diligence for a bank-financed solar farm**

Module 4: Legal, Regulatory & Contractual Due Diligence

- Land rights, permits, licences and regulatory compliance
- Grid-connection agreements and interconnection obligations
- **PPA bankability** and revenue-risk assessment
- EPC, O&M, supply, warranty and performance-guarantee contracts
- Case Study: **Contract-risk review before solar project financial close**

Module 5: Commercial, Offtaker & Counterparty Due Diligence

- Market assessment and electricity-price dynamics
- Offtaker creditworthiness and **PPA counterparty risk**
- Sponsor, EPC contractor, O&M provider and supplier assessment
- Revenue security, curtailment and merchant-exposure risks
- Case Study: **Offtaker credit assessment for a corporate solar PPA**

Module 6: ESG, Environmental & Social Due Diligence

- **ESG risk assessment** and sustainable-investment principles
- Environmental impact, biodiversity and land-use considerations
- Community engagement and stakeholder-management risks
- Climate resilience, health and safety, and social safeguards
- Case Study: **ESG due diligence for a large-scale solar development**

Module 7: Risk Management, Insurance & Bankability

- Construction, operational, technology and supply-chain risks
- Political, regulatory, currency and macroeconomic risks
- Insurance adequacy, warranties, guarantees and risk-transfer mechanisms
- **Risk registers, mitigation plans and lender conditions precedent**
- Case Study: **Bankability assessment of a delayed solar construction project**

Module 8: Due-Diligence Reporting & Investment Decision

- Structuring an **investment-grade due-diligence report**
- Executive summaries, red flags and materiality assessments
- Risk scoring, recommendations and remediation plans
- Investment committee presentation and **go/no-go decision frameworks**
- Case Study: **End-to-end due diligence and investment recommendation for a 50 MW solar project**

Training Methodology

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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